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METEOROLOGICAL STATISTICS FOR 1907.*

By F. H. Loud.

Building, Equipment, and Exposure of Instruments.

The observatory building of Colorado College, erected in 1894, was the gift of Henry R. Wolcott, Esq., of Denver. Its geographical position, as determined by reference to neighboring stations of United States surveys, is, in latitude, 38 deg., 50 min., 44 sec.; longitude, 6 hours, 59 min., 16.5 sec.; elevation, about 6,040 feet.

The astronomical equipment consists of a four-inch equatorial telescope, given to the College by the donor of the building, and a transit instrument and clock, given in 1900 by the late Charles S. Blackman, of Montreal, Canada.

The meteorological equipment in part antedates the building, the nucleus having been obtained from the U. S. Signal Service, when the college first became a voluntary weather station in 1878. Several additions of apparatus were subsequently made. Much the most noteworthy, during the earlier years, was that of a set of Draper self-recording instruments, due to the generous interest of the late Dr. S. E. Solly, of Colorado Springs, who was seconded by Mr. B. W. Steele, editor of the "*Gazette*," in his lifetime one of the staunchest advocates of local enterprises in science, and by other friends. Of these Draper instruments, the barograph alone remains in use. In November, 1903, the quadruple register with all the apparatus connected with it, together with a number of other instruments, especially hygrometers of different kinds, were

*The matter introductory to the tabulated statistics, presented under this head, is in the main reprinted from the Colorado College Publication (General Series No. 16) which appeared in April, 1905. A somewhat more detailed account than is here given of the process used in preparing the Daily Record sheets from the instrumental data may be found in that issue. In the number for October, 1904, is contained a more extended description of the meteorological instruments, including an untechnical account of the principles of their construction.

given by General William J. Palmer, who has since provided for the expense of reducing and publishing the observations and records.

The exposure of instruments pertaining to wind, sunshine and temperature is on the roof of Hagerman Hall, a building standing east of the Observatory and on higher ground. Here is the standard thermometer shelter, 10 feet above the roof, 54 feet above the ground and 69.5 feet above the level of the Observatory floor. It contains maximum and minimum thermometers, a whirling psychrometer, and a Richard thermograph. Higher by 7 feet, and at horizontal distances of 11 feet from the shelter and 341 feet from the Observatory door, is the wind vane, on the iron support of which are attached the Robinson anemometer and the electric sunshine recorder. The cable connecting these three instruments with the quadruple register in the Observatory is laid underground.

Near the middle of the flat roof of the Observatory, which affords, on the east side of the dome, a clear space 37 feet long (east and west) and 27½ feet broad, and is 16 feet above the ground, is the rain gauge, provided with a tipping-bucket attachment for registration. It is electrically connected with the quadruple register, which is in the same building, on the first floor. Here, also, on the north side, is a window shelter for the exposure of the hygrometric apparatus, exclusive of the whirled psychrometer. This consists of a Richard registering psychrometer, a dew point apparatus, and a hair hygrometer. The Draper barograph is on the south wall of the same room, but the barometer read at the tri-daily observations, as well as the Richard barograph, is in the upper story of Hagerman Hall, at an elevation exceeding that of the Draper instrument by 43.2 feet.

THE "DAILY RECORD."

The summaries for the months, which are presented in tabular form in the pages following, are derived in the main

from a prior set of tables, one for each day, called the Daily Record, which is preserved in MS. form, along with the original sources, at the Observatory. In the Daily Record is tabulated first, the wind-direction, the register of which, as automatically made upon the instrument, consists of four rows of dots, for N., E., S., and W., made at intervals of one minute. The count of dots in the four rows, for each hour of the day, occupies the beginning of the record, followed by the *mean bearing* for that hour, deduced from the preceding by a specially adapted traverse table. Next is the hourly wind-velocity, obtained by counting the anemometer record. Succeeding columns exhibit the resolution of this velocity into two components determined by the bearing, one directed along the meridian and the other at right angles thereto.

After the wind-record come the two other data derived from the Quadruple Register, viz.: the rainfall and sunshine, for hourly periods, and after these the pressure as shown by the trace of the Draper barograph at the end of the hour. The temperature, which is next on the record, is obtained from the Richard thermograph, by noting the highest and lowest indications in the course of each hour, and taking the half sum of these as the mean hourly temperature. The humidity records and those on the state of the sky, whether "clear." "partly cloudy," or "cloudy," are taken from the tri-daily observations.

The foregoing data can in large part be obtained from supplementary sources in case the record of the instrument ordinarily used should for any reason be temporarily unavailable. Thus, if a gap occurs in the Draper register of pressure, it can be filled from the Richard barograph with a suitable correction for difference of elevation. The sunshine record is similarly supplemented by the indication of a photographic instrument, of a design originating at the Harvard College Observatory, and belonging to the station of the Western Association for Stellar Photography, at Knob Hill,

about two miles east of the College grounds. A small anemometer register at Hagerman Hall is actuated by the same electric current which goes to the corresponding pen in the larger instrument at the Observatory. An interesting term of comparison with the College observations is afforded by those of Mr. Emery P. Moon, who kindly furnishes daily readings of maximum and minimum thermometer and rainguage, made about a mile east of the College at 222 Cedar Street.

Except in the case of the Hagerman Hall anemometer, the sources of supplementary data above named are quite different from the primary ones, either as respect construction or exposure of instruments, and hence discrepancies between the parallel records are continually presented. This in some cases is hardly to be regretted, since a comparison may elicit additional information upon the actual physical conditions. In other cases, and particularly in that of the two sunshine recorders, the divergencies are much greater than could be desired, and occasionally, in fact, their simultaneous records would hardly be believed to belong to the same day. Each instrument gives a more or less defective account of the sunshine in the early morning hours. In the statistical tables of this Publication, in this, as in former years, no attempt is made to supply this omission, but the data are given as derived from the instrument. This fact accounts for an apparent disagreement with certain other compilations, drawn from the same original source, in which it is the customary practice to add to the instrumental record a correction determined empirically from month to month, by observing how much the record falls short of 100 per cent. on one or more selected days observed to be cloudless.

THE "MONTHLY SUMMARY" AND OTHER TABLES.

The manner of deriving the tables annually printed from the MS. "Daily Record," requires little explanation. The

first column, "Mean Temperature for Twenty-four Hours," is the mean of the results for the separate hours, obtained as above described from the Richard thermograph. The "Extremes," in the next two columns, are the highest and lowest points reached by the temperature between the beginning of the calendar day, (at 12 o'clock midnight) and its close, twenty-four hours later. They are taken from the readings of the maximum and minimum thermometer, when these are applicable; yet in numerous cases, these readings are discarded for those of the Richard instrument. For instance, it occurs not seldom in this climate that at the time of setting the maximum thermometer (6 P. M.), the temperature is higher than is reached at any hour of the following day. Reports based upon the record of the latter thermometer will hence show for the second day a maximum temperature which does not belong to that day at all. Again, the minimum thermometer is sometimes read lower at noon than in the morning, and lower still at 6 P. M., when its daily indication is recorded; while the tracing of the Richard instrument may show that the first reading is nearest the truth, the subsequent fall of the index being presumably due to vibration of the instrument caused by wind. The avoidance of misleading records of these and similar kinds produces an appreciable difference between the contents of these two columns and those presented in such reports as are drawn from the records of the maximum and minimum thermometers alone. The "Hours of Extremes" are taken from the indications of the Richard thermograph. When several hours have equal readings, the hour named is that nearest the middle of the period of maximum temperature, or having the highest temperature in adjacent hours. Inspection of these columns enables the reader to distinguish the days in which the normal progress of temperature was disturbed by irregular movements.

In the six columns under "Psychrometer" are given the results of all the tri-daily observations, individually, while in that of "Clouds at Observations," the three estimates of cloudiness, made at the same hours, and each expressed in tenths of sky covered, are combined into one sum, thus indicating the cloudiness of the day on a scale of 30. At the foot of the column, the mean of the daily estimates is reduced to the more convenient form of a percentage; the number denoting entire obscuration being advanced from 30 to 100, and others in proportion.

The three columns following contain the record of sunshine. In the first six months of the year, this is taken from the Quadruple Register, giving the indications of an air-thermometer. At the beginning of the year, these were fairly satisfactory, becoming less so as the year advanced, until in June, although some of the days should unquestionably have had a record of unbroken sunshine, the indication for none of these exceeded 71 per cent. of the possible duration. In July the column is filled from the Knob Hill photographic record, the other being now so much impaired as to register only about half the true amount; and this use of the substitute record continues till October 6th, with the exception of the last week in August, for which the report furnished by the College to the City Department of Public Health (and subjected to the rather arbitrary augmentation for unrecorded morning hours already mentioned), proved afterward to be the only available source.

In October, a better adjustment of the instrument connected with the Quadruple Register was secured, and this instrument furnished the remaining records employed as far as the 27th of December, when it was again necessary for temporary causes to fall back upon the photographic tracings for the last five days of the year.

The "barometer" column, like those relating to the psychrometer, gives the result of individual eye-observations, but in

this case is restricted to the reading taken at noon. Were this observation taken about fifteen or twenty minutes earlier, the indications are that it would, in the long run, afford a good average value for the daily mean.

The seven columns next in order relate to the wind. The first gives the total run of miles for the day, as counted from the Quadruple Register. When the indication of this instrument is lacking for a number of hours, the deficiency is supplied for the interval as a whole by recourse to the dial attached to the anemometer. Thus there is no unfilled gap in this record, though in several instances the total sum for two or more consecutive days cannot be distributed to the separate days, but is presented only as a gross amount. The four columns showing the sums of the N., S., W., and E., components from the Daily Record might, of course, have been reduced to two without effect on the computation of the resultant, but there would so be lost an interesting index of the variability of the wind, showing in what days the air-movement was substantially all in one direction, and in what others the flow from one quarter was nearly neutralized in the course of the same day by counter-currents. The direction and magnitude of the resultant are given in the last two of the wind columns.

Owing to gaps in the record of either the anemometer or anemoscope, the wind-components are lacking, here and there, for intervals of varying length. Where these components are known for part of a day, the sums have usually been entered in the appropriate columns. The following is a full list of these instances, showing the extent of the break in the record for each case.

January 5–6—Components lacking for 18 hours.
May 19–20—Wind components and sunshine record lacking, 20 hours.
June 13—Components lacking, 5 hours.
July—Components lacking for parts of the 16th, 18th, 22nd, and 23rd.
August—Components lacking for parts of the 18th, 19th, 20th, and 21st.
September—Components lacking for the 8th, and parts of the 7th and 9th.
November 29—Components lacking for 3 hours.
December—Components lacking for 14 hours of the 1st, for 1 hour of the 8th, for the entire week, 9th to 16th, and for 6 hours of the 30th.

The three columns which terminate the page contain the record of precipitation. Here, the indications of the Quadruple Register and the stick-measurement are compared, and the latter receives the preference in the estimate of quantity.

The "Annual Summary by Months," which directly follows the monthly summaries, is entirely composed of material drawn from the latter. If, therefore, any question can arise as to the meaning of any of the entries, it can be solved by reference to the preceding pages.

As in previous years, the record for the four months of January, April, July, and October, are subjected to further analysis for the purpose of tracing the diurnal variation in the chief meteorological elements. For reasons which will be apparent to the reader of the foregoing references to the sunshine record, the latter has not been deemed of sufficiently clear significance to be admitted in the same form heretofore employed, but its place has been taken by a table of the relative cloudiness at the three daily observations, extending through the twelve months. The thermometric columns have been taken from the record of the Richard thermograph, which was continuous through each of the four months discussed. The barometric record was from the Draper barograph, except for January and for short intervals in April and October. In these last, the gaps were filled by aid of the Richard barograph, using the indications of the Draper instrument for the beginning and end of each as fixed points, and the Richard record as showing the differential variations in the passage from one to the other. In January, the gaps in the Draper register were more serious, while that of the Richard instrument was continuous; it was therefore decided to depend upon the latter for the entire record, but to apply a constant correction so as to reduce the readings to values agreeing in the mean with those which the Draper barograph would have supplied. To determine this uniform correction, means were taken for ten days in different parts of the month

where the records of both instruments were continuous. The fact was thus made apparent that in January,—and as further investigation showed, in other months as well,—the average readings of the Draper instrument showed an excess over the other, larger than could be explained from the difference of elevation of their respective exposures at the Observatory and Hagerman Hall. A difference, not quite so great, appeared also between the 12 M. eye-observation of the mercury column, and the mean of the Draper readings for the same hour, amounting in the mean of the four months discussed to 0.109 inch, while the difference of elevation is but 43.2 feet.

In an examination of the meteorological record of 1907 as a whole, the reader will notice a number of points of more or less interest, as distinguishing it from that of other years in this place, or as bringing into prominence certain characters of the Colorado climate illustrated in other years as well. It may not be amiss to call attention to a few of these, particularly in the temperature record. For this year, no temperature below zero has been observed,—an unusual fact, and in marked contrast to the record of 1905, when the yearly minimum was –22°. The mean temperature of the whole year exceeds that of 1905 by 2°.1. In this year, the hottest day and highest monthly mean belong to July, which in both respects exhibits a marked prominence over either June or August, though each of these has successfully rivalled it in other years.

The warm weather of January, February, and March was succeeded by such cold in the latter part of April that the monthly mean for this month actually fell below that of the preceding; yet in consequence of a few high temperatures near the beginning of April, it was true of the days in May that on none of them down to the 20th, had the thermometer risen so high as on some April day preceding it by as much as a whole month. The latest fall of snow was on May 14th. Thus while a Colorado winter may occasionally maintain a

consistent mildness through its whole proper term, it is apt to reappear for a while in the spring with a show of fangs quite disconcerting, especially to the too trustful cultivator of an orchard or a market garden. The monthly range of temperature was not less than 63° in February, March April, or May.

The precipitation for the year has been very light, amounting to 9.80 inches, or little more than two-thirds the ordinary fall. That of the three preceding years has averaged 16.65 inches.

The total movement of wind during 1907 was 70,827 miles, averaging 194 miles a day, or 8.085 miles an hour,—a little larger than in either of the two years just preceding, but not so great as in 1904.

The tri-daily observations, with the care of all the instruments, have been during this year in charge of the same observers who performed the duty in 1906,—Messrs. C. M. Angell, S. L. Smith, and T. D. Riggs.

MEAN DAILY MARCH OF PRESSURE AND TEMPERATURE—1907.

Hour Ending	January.		April.		July.		October.	
	Barometer.	Thermometer	Barometer.	Thermometer	Barometer.	Thermometer	Barometer.	Thermometer
1 A.M.	24.042	27.5	24.109	38.3	24.247	59.7	24.267	42.1
2 "	.039	26.9	.101	37.7	.244	58.9	.264	41.4
3 "	.035	26.7	.098	37.1	.241	57.8	.258	41.1
4 "	.022	26.8	.097	36.6	.243	56.7	.262	41.1
5 "	.014	26.3	.099	36.0	.247	56.4	.266	40.6
6 "	.016	26.4	.108	35.7	.250	57.7	.269	40.5
7 "	.025	26.7	.113	36.8	.254	62.0	.276	41.4
8 "	.035	26.8	.110	39.3	.255	66.6	.284	46.0
9 "	.050	28.5	.109	42.0	.252	69.7	.286	51.1
10 "	.059	32.4	.107	44.6	.249	72.1	.283	55.6
11 "	.054	36.2	.097	46.0	.243	74.0	.273	57.4
12 M.	.034	38.7	.089	48.1	.235	74.9	.260	59.2
1 P.M.	.010	40.4	.074	49.8	.222	75.3	.239	60.3
2 "	.001	41.6	.064	50.8	.215	75.5	.229	60.9
3 "	.006	42.2	.055	51.4	.209	75.1	.226	60.9
4 "	.013	42.3	.055	51.6	.207	74.9	.227	60.1
5 "	.021	41.1	.063	50.7	.209	73.6	.233	58.0
6 "	.034	38.2	.068	49.6	.213	71.9	.243	55.1
7 "	.050	35.5	.081	47.4	.218	69.9	.252	52.3
8 "	.057	32.8	.100	45.0	.232	68.1	.262	49.6
9 "	.062	30.9	.112	43.2	.244	66.1	.272	47.8
10 "	.064	29.7	.113	41.2	.250	64.3	.274	45.5
11 "	.065	29.1	.113	40.1	.252	62.5	.274	44.1
12 n't	.061	28.7	.113	38.9	.249	60.8	.270	43.1
Sums	576.869	782.4	578.248	1037.9	581.680	1604.5	582.249	1195.2
Means	24.036	32.6	24.094	43.2	24.237	66.9	24.260	49.8

DIURNAL PERIODICITY OF CLOUDINESS.

Means of Tri-Daily Estimates of the Percentage of Sky Covered.

	January.	February.	March.	April.	May.	June.	July.	August.	Septemb'r	October.	Novem.	Decem.
6 A.M.	33	31	38	51	42	28	28	44	23	22	24	33
12 M.	37	34	37	50	71	35	43	40	29	31	27	30
6 P.M.	26	30	34	56	62	42	56	45	35	26	13	19
Mean.	32	32	36	52	58	35	42	43	29	26	21	27

MONTHLY SUMMARY OF

JANUARY,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes. Max.	Extremes. Min.	Max.	Min.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent
1	25.2	32	20	5 p.m.	6 a.m.	87	88	80	17	21	25	23	101	529	19
2	25.4	35	16	1 p.m.	12 n't	79	38	65	22	11	15	12	264	529	50
3	22.6	36	8	4 p.m.	7 a.m.	80	70	71	4	21	22	6	251	530	47
4	41.2	55	25	2 p.m.	1 a.m.	81	32	42	27	24	28	10	0	531	0
5	45.0	58	34	2 p.m.	8 a.m.	64	39	36	29	31	26	7	330	532	62
6	41.0	53	26	3 p.m.	8 a.m.	73	49	39	26	28	23	9	0	533	0
7	38.5	50	23	2 p.m.	8 a.m.	81	16	19	26	7	5	1	217	533	41
8	32.0	42	20	1 p.m.	6 a.m.	77	30	58	18	13	22	12	355	534	66
9	34.4	51	15	4 p.m.	6 a.m.	100	37	30	17	20	13	0	455	535	85
10	44.0	54	33	4 p.m.	9 p.m.	19	24	35	6	16	19	2	362	535	67
11	38.8	44	28	4 p.m.	12 n't	47	27	23	21	12	8	0	486	536	90
12	32.3	47	18	4 p.m.	4 a.m.	39	33	12	3	13	5	0	453	537	84
13	39.1	49	26	3 p.m.	3 a.m.	21	12	30	6	1	13	1	465	538	86
14	21.8	32	14	10 a.m.	12 n't	48	100	100	11	19	16	20	68	540	12
15	18.5	30	12	4 p.m.	9 a.m.	100	100	88	13	18	19	17	252	541	46
16	32.1	49	22	2 p.m.	12 n't	60	27	44	18	12	14	16	203	542	37
17	37.5	54	16	2 p.m.	5 a.m.	55	60	32	12	30	18	7	466	543	86
18	39.6	51	27	2 p.m.	12 n't	58	32	35	22	22	19	3	386	545	71
19	26.6	38	14	1 a.m.	12 n't	29	32	30	2	6	4	3	481	546	88
20	24.8	38	8	3 p.m.	5 a.m.	82	20	49	8	1	13	7	406	548	74
21	40.4	54	26	4 p.m.	11 p.m.	35	20	23	12	13	10	14	301	550	54
22	35.0	53	20	4 p.m.	4 a.m.	51	23	28	8	14	11	2	470	552	85
23	40.0	60	24	4 p.m.	7 a.m.	67	17	25	17	14	10	0	484	553	88
24	30.9	46	18	12 m.	12 n't	57	25	78	15	10	21	11	453	555	82
25	12.0	18	8	1 a.m.	12 n't	100	100	93	10	10	9	25	0	557	0
26	16.7	24	4	2 p.m.	1 a.m.	87	74	100	17	15	18	25	5	559	0
27	20.5	36	2	12 m.	6 a.m.	88	63	60	4	22	18	6	395	560	70
28	36.9	55	18	4 p.m.	7 a.m.	87	32	46	18	18	28	9	369	562	66
29	42.2	50	27	2 p.m.	12 n't	55	47	44	30	29	21	21	340	564	60
30	34.6	51	19	4 p.m.	8 a.m.	100	61	52	21	32	26	23	101	566	18
31	40.9	55	28	4 p.m.	8 a.m.	63	31	28	22	20	16	4	471	568	83
Sums,	1010.5	1400	599	.....	.....	2070	1359	1495	482	523	515	296	.....	.....	1737
Means,	32.6	45.2	19.3	.....	.....	67	44	48	16	17	17	9	.....	.....	.....
Perc'g.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32%	.....	.....	56

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			
	WIND.							Hours of Fall.		Total Amount.	Date.
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
23.402	140	52.5	5.7	82.1	35.3	N. 45° 0′ W.	66.2	10 a.m.	2 p.m.	.10	1
.791	239	41.4	68.6	128.2	63.3	S. 67° 16′ W.	70.3	0	0	0	2
24.102	146	3.9	93.7	10.0	89.2	S. 41° 25′ E.	119.7	7 a.m.	9 a.m.	T	3
23.792	98	64.7	18.5	26.6	9.5	N. 20° 18′ W.	49.3	0	0	0	4
.749	[655]	28.1	74.4	18.0	42.0	S. 27° 24′ E.	52.2	0	0	0	5
.748	[ ]	0	172.0	34.4	22.9	S. 3° 50′ W.	172.3	0	0	0	6
.948	292	58.6	63.3	182.0	47.8	S. 88° 0′ W.	134.3	8 a.m.	10 a.m.	T	7
24.324	166	54.0	85.3	8.1	66.1	S. 61° 39′ E.	65.9	0	0	0	8
.137	178	87.8	29.3	95.8	20.1	N. 52° 18′ W.	95.6	0	0	0	9
23.907	240	105.2	55.0	131.8	33.2	N. 63° 01′ W.	110.6	0	0	0	10
.546	431	227.6	2.5	349.0	2.1	N. 57° 01′ W.	413.5	0	0	0	11
.676	171	64.7	39.6	67.0	40.0	N. 46° 56′ W.	36.9	0	0	0	12
.754	264	47.4	129.2	76.6	70.7	S. 4° 07′ W.	82.0	0	0	0	13
24.000	157	42.6	78.7	12.2	76.8	S. 60° 49′ E.	74.0	0	0	0	14
23.845	82	20.9	43.9	12.0	30.8	S. 39° 26′ E.	29.7	8 a.m.	.....	T	15
.818	127	102.9	9.0	23.5	20.2	N. 2° 02′ W.	93.0	0	0	0	16
.811	235	43.0	88.5	108.2	50.0	S. 51° 59′ W.	73.8	0	0	0	17
.647	264	36.1	183.3	49.5	54.5	S. 1° 57′ E.	147.2	0	0	0	18
.831	465	309.0	34.1	257.5	39.0	N. 38° 29′ W.	351.1	0	0	0	19
24.241	153	63.2	53.1	24.1	54.3	N. 71° 30′ E.	31.8	0	0	0	20
.231	118	42.1	44.8	11.0	53.6	S. 86° 22′ E.	42.6	0	0	0	21
.334	140	112.6	15.3	2.8	22.3	N. 11° 20′ E.	99.2	0	0	0	22
.095	168	134.6	19.3	18.2	19.5	N. 0° 39′ E.	115.3	0	0	0	23
.022	242	77.0	115.6	1.9	118.0	S. 71° 37′ E.	122.3	0	0	0	24
.017	146	6.6	108.7	1.9	81.3	S. 37° 52′ E.	129.3	7 a.m.	5 p.m.	.01	25
23.856	236	151.2	52.7	27.3	67.5	N. 22° 12′ E.	106.4	.....	.....	T	26
24.037	103	24.3	59.4	3.7	46.3	S. 50° 31′ E.	55.2	0	0	0	27
23.926	120	41.3	52.5	28.3	26.0	S. 6° 12′ W.	21.3	0	0	0	28
24.032	191	31.9	101.8	36.8	90.5	S. 37° 32′ E.	88.1	0	0	0	29
23.935	64	11.2	33.9	0	42.4	S. 61 °50′ E.	48.1	0	0	0	30
24.014	151	72.3	43.9	50.5	27.7	N. 38° 44′ W.	36.4	0	0	0	31
41.568	6182	2158.7	1975.6	1879.0	1462.9	.....	.....	.....	.....	0.11	....
23.922	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

MONTHLY SUMMARY OF

FEBRUARY,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes. Max.	Extremes. Min.	Max.	Min.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent
1	45.7	63	26	3 p.m.	12 n't	28	18	17	11	16	11	9	381	570	67
2	21.2	27	15	4 p.m.	12 n't	100	87	88	18	18	21	19	20	572	3
3	10.3	19	1	4 p.m.	8 a.m.	95	51	67	3	1	6	14	291	574	51
4	31.0	55	10	2 p.m.	2 a.m.	47	47	61	21	34	20	13	317	576	55
5	37.8	53	18	1 p.m.	1 a.m.	64	36	47	29	26	21	14	248	578	43
6	45.1	56	25	1 p.m.	12 n't	31	19	41	20	16	22	2	525	581	90
7	35.1	53	20	4 p.m.	7 a.m.	100	27	13	19	18	0	1	447	583	77
8	51.5	69	29	4 p.m.	1 a.m.	30	7	11	13	1	8	0	494	585	84
9	42.9	54	26	7 a.m.	12 n't	27	26	51	7	16	25	13	155	587	26
10	37.3	55	20	4 p.m.	5 a.m.	67	20	15	17	13	4	1	537	590	91
11	41.0	61	24	3 p.m.	4 a.m.	69	10	23	20	4	14	0	538	592	91
12	45.7	58	27	3 p.m.	1 a.m.	27	11	16	12	4	8	8	388	594	65
13	42.5	56	28	2 p.m.	12 n't	51	13	37	20	8	20	0	522	595	88
14	38.2	56	20	3 p.m.	8 a.m.	77	16	32	18	11	18	4	514	597	86
15	42.1	56	27	2 p.m.	12 n't	66	14	19	25	8	9	0	593	599	99
16	39.5	59	22	3 p.m.	4 a.m.	55	9	54	12	1	34	0	525	602	87
17	44.5	62	25	3 p.m.	4 a.m.	66	23	30	25	22	21	18	449	605	74
18	44.6	53	35	4 p.m.	8 a.m.	30	33	32	13	23	22	0	489	609	80
19	45.0	58	28	3 p.m.	3 a.m.	59	22	28	23	18	20	11	483	612	79
20	45.2	63	27	3 p.m.	7 a.m.	62	12	37	21	7	28	15	473	615	77
21	34.9	44	26	1 p.m.	7 a.m.	69	65	70	20	30	30	18	206	617	33
22	41.9	62	23	3 p.m.	4 a.m.	79	31	95	23	27	55	6	476	619	77
23	44.5	57	32	1 p.m.	3 a.m.	51	40	60	25	27	30	16	242	623	39
24	37.8	48	28	5 p.m.	12 n't	100	61	60	32	31	30	15	328	627	51
25	41.1	62	22	1 p.m.	4 a.m.	89	22	25	22	16	18	4	521	628	83
26	41.9	55	28	2 p.m.	12 n't	34	20	61	15	16	25	10	326	630	52
27	23.7	28	19	4 p.m.	7 a.m.	100	100	95	21	38	23	30	0	632	0
28	25.0	32	19	2 p.m.	5 a.m.	73	70	100	14	21	25	27	119	635	19
Sums,	1077.0	1474	650	.....	.....	1746	981	1285	519	471	568	268	....	....	177
Means,	38.5	52.6	23.2	.....	.....	62	35	46	19	17	20	10	....	....	...
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32%	....	....	63

INSTRUMENTAL RECORD.

1907.

Barometer.	Anemometer and Anemoscope.							Rain Gauge.			Date.
	Wind.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
23.715	296	139.1	43.8	197.1	20.0	N. 61° 43′ W.	201.1	0	0	0	1
.933	50	18.1	22.6	1.7	21.8	S. 77° 23′ E.	20.6	6 a.m.	12 m.	.02	2
.939	70	0	53.4	0.9	41.9	S. 37° 31′ E.	67.3	0	0	0	3
.800	253	93.5	77.1	121.0	59.8	N. 75° 00′ W.	63.3	0	0	0	4
.926	165	41.6	80.9	14.7	80.1	S. 59° 02′ E.	76.3	0	0	0	5
24.030	314	228.1	24.9	106.1	36.9	N. 18° 48′ W.	214.7	0	0	0	6
.318	155	101.0	37.4	8.1	37.8	N. 25° 02′ E.	70.2	0	0	0	7
.196	276	178.6	12.7	170.5	3.8	N. 45° 08′ W.	235.2	0	0	0	8
.288	251	231.5	0	15.7	59.2	N. 10° 39′ E.	235.5	0	0	0	9
.339	162	112.0	37.2	5.6	30.8	N. 18° 37′ E.	78.9	0	0	0	10
.248	198	118.0	53.0	24.8	48.9	N. 20° 21′ E.	69.3	0	0	0	11
.090	301	209.6	0	202.9	0	N. 44° 04′ W.	291.7	0	0	0	12
.222	150	89.3	30.1	17.2	58.7	N. 35° 02′ E.	72.3	0	0	0	13
.318	141	100.4	23.2	10.2	32.7	N. 16° 15′ E.	80.4	0	0	0	14
.269	189	135.8	35.2	26.8	34.8	N. 4° 33′ E.	100.9	0	0	0	15
.192	177	128.7	27.9	16.4	36.3	N. 11° 10′ E.	102.7	0	0	0	16
23.957	237	180.1	8.0	123.1	7.2	N. 33° 57′ W.	207.5	0	0	0	17
24.053	317	195.8	41.8	128.1	40.3	N. 29° 41′ W.	177.3	0	0	0	18
.000	183	111.8	36.3	55.0	36.2	N. 13° 59′ W.	77.8	0	0	0	19
23.899	220	176.9	0	90.0	13.5	N. 23° 23′ W.	192.7	0	0	0	20
.964	136	31.3	72.2	2.7	73.9	S. 60° 08′ E.	82.1	0	0	0	21
.884	130	50.6	31.7	45.1	45.1	North	18.9	0	0	0	22
.916	236	172.0	17.6	82.0	12.0	N. 24° 23′ W.	169.6	0	0	0	23
24.306	217	35.9	122.6	5.8	131.6	S. 58° 38′ E.	147.2	.....	.....	.06	24
23.955	164	70.3	68.0	10.4	55.5	N. 87° 05′ E.	45.2	0	0	0	25
.810	189	64.1	69.4	16.2	85.7	S. 85° 38′ E.	69.7	0	0	0	26
.705	197	58.0	103.9	0.8	92.8	S. 63° 29′ E.	102.8	8 a.m.	4 p.m.	T	27
.891	138	128.9	0	8.9	23.2	N. 6° 20′ E.	129.7	4 p.m.	.....	.03	28
673.163	5512	3201.0	1130.9	1507.8	1220.5	.....	.....	.....	.....	.....	.....
24.042	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.11	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MONTHLY SUMMARY OF

MARCH,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			HOURS OF EXTREMES.		RELATIVE HUMIDITY.			DEW-POINT.			CLOUDS AT OBSERVATIONS	NUMBER OF MINUTES.		
	MEAN OF 24 HRS.	EXTREMES. MAX.	EXTREMES. MIN.	MAX.	MIN.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		ACTUAL.	POSSIBLE	PER CENT
1	35.5	52	13	5 p.m.	7 a.m.	85	34	24	13	17	14	11	222	640	35
2	47.9	56	35	4 p.m.	12 n't	31	23	38	16	18	26	2	544	642	85
3	42.6	62	22	4 p.m.	7 a.m.	77	22	22	20	18	18	7	502	644	78
4	45.0	59	31	1 p.m.	12 n't	67	18	49	26	16	28	17	310	647	48
5	32.2	41	25	4 p.m.	4 a.m.	89	74	70	26	27	29	25	96	649	15
6	44.3	58	30	3 p.m.	1 a.m.	83	31	21	31	23	12	7	514	652	79
7	39.7	50	24	1 p.m.	8 a.m.	77	45	47	20	26	29	6	492	655	75
8	41.0	59	21	4 p.m.	7 a.m.	93	33	27	22	23	18	1	554	658	84
9	37.5	47	29	1 p.m.	12 n't	67	41	67	26	22	26	18	255	660	39
10	39.9	57	25	6 p.m.	8 a.m.	89	47	68	23	25	46	9	448	662	68
11	47.9	57	36	1 p.m.	3 a.m.	24	54	38	16	34	26	9	446	664	67
12	32.6	44	25	4 p.m.	12 n't	90	100	67	28	31	26	27	91	666	14
13	24.9	31	17	6 p.m.	7 a.m.	86	78	79	16	21	24	18	334	668	50
14	34.5	51	15	5 p.m.	6 a.m.	75	29	32	16	14	18	1	580	671	86
15	41.6	56	25	3 p.m.	7 a.m.	41	23	25	10	14	18	19	350	676	52
16	51.0	64	39	5 p.m.	1 a.m.	40	25	48	25	24	36	8	412	681	60
17	54.5	69	38	4 p.m.	7 a.m.	51	28	17	24	30	21	8	443	683	65
18	57.9	78	35	5 p.m.	7 a.m.	75	16	23	29	25	33	19	480	686	70
19	63.2	77	46	4 p.m.	7 a.m.	56	16	24	37	25	32	19	461	687	67
20	60.5	74	42	1 p.m.	3 a.m.	45	36	30	26	44	36	15	402	689	58
21	61.2	70	44	3 p.m.	12 n't	58	23	52	47	28	47	5	470	692	68
22	54.0	65	40	3 p.m.	1 a.m.	67	53	67	42	44	42	18	463	694	67
23	50.7	63	34	4 p.m.	6 a.m.	91	49	52	32	37	42	1	522	695	75
24	55.9	70	39	1 p.m.	3 a.m.	60	28	38	30	33	37	0	594	697	85
25	59.1	70	51	3 p.m.	6 a.m.	62	23	55	41	28	47	8	472	698	68
26	56.8	66	50	3 p.m.	7 a.m.	26	22	39	20	24	34	8	551	700	79
27	44.8	60	27	4 p.m.	7 a.m.	79	45	31	24	35	27	5	529	702	75
28	35.5	41	29	4 p.m.	6 a.m.	80	82	54	25	28	23	22	51	705	7
29	40.2	51	30	4 p.m.	7 a.m.	82	48	43	30	26	23	12	380	710	53
30	31.2	51	25	5 p.m.	6 a.m.	79	36	33	23	23	13	7	476	715	66
31	42.0	58	20	5 p.m.	6 a.m.	87	36	40	17	26	32	4	483	718	67
Sums,	1405.6	1807	962	.....	.....	2112	1218	1320	781	809	883	336	.....	.....	1905
Means,	45.3	58.3	31.0	.....	.....	68	39	43	25	26	28	11	.....	.....	.....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36%	.....	.....	61%

INSTRUMENTAL RECORD.

1907.

Barometer.	Anemometer and Anemoscope.							Rain Gauge.			Date.
	Wind.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.012	224	77.4	47.1	134.4	24.0	N. 74° 39′ W.	114.5	.....	.....	.02	1
.095	381	214.1	7.5	285.5	11.5	N. 53° 01′ W.	343.4	0	0	0	2
23.958	161	66.8	49.0	53.7	34.0	N. 47° 54′ W.	26.5	0	0	0	3
.975	183	46.5	69.4	17.5	107.1	S. 75° 40′ E.	92.5	0	0	0	4
24.107	139	0	97.5	0	98.7	S. 45° 21′ E.	138.7	0	0	0	5
23.876	375	200.1	11.1	273.0	14.5	N. 53° 50′ W.	320.2	0	0	0	6
24.068	192	21.5	134.3	6.5	84.5	S. 34° 42′ E.	137.1	0	0	0	7
23.955	185	63.2	79.0	35.2	63.2	S. 60° 34′ E.	32.1	0	0	0	8
.964	343	301.9	18.3	31.6	53.1	N. 4° 20′ E.	284.4	5 p.m.	.....	T	9
24.050	162	35.3	70.2	9.1	99.4	S. 68° 52′ E.	96.8	.....	7 a.m.	T	10
23.765	466	34.6	139.1	408.1	6.3	S. 75° 25′ W.	415.1	0	0	0	11
.624	225	137.9	59.8	7.8	83.0	N. 43° 55′ E.	108.4	10 p.m.	.....	.....	12
.876	175	98.9	56.5	4.2	50.9	N. 47° 46′ E.	63.1	.....	.....	.14	13
24.059	174	76.9	49.9	58.6	35.8	N. 62° 55′ W.	59.3	0	0	0	14
.099	149	58.3	73.6	11.2	32.0	S. 53° 40′ E.	25.8	0	0	0	15
.012	193	80.9	67.3	51.4	51.5	N. 0 25′ E.	13.6	0	0	0	16
.067	181	24.7	107.8	35.2	71.0	S. 23° 18′ E.	90.5	0	0	0	17
.015	197	62.8	52.4	82.8	40.8	N. 76° 05′ W.	43.3	0	0	0	18
.114	195	48.8	48.4	100.0	44.4	N. 89° 35′ W.	55.6	0	0	0	19
23.953	227	54.5	151.3	36.6	39.7	S. 1° 50′ E.	96.9	0	0	0	20
.822	319	17.0	149.1	210.8	41.4	S. 52° 03′ W.	214.8	0	0	0	21
.784	280	40.0	155.2	39.1	126.0	S. 37° 02′ E.	144.3	0	0	0	22
.995	238	27.7	158.2	47.8	77.6	S. 12° 52′ E.	133.8	0	0	0	23
.850	248	58.3	109.3	106.6	50.3	S. 47° 50′ W.	76.0	0	0	0	24
.745	321	21.5	179.6	46.8	174.8	S. 39° 00′ E.	203.4	0	0	0	25
.535	571	0	408.0	338.1	36.6	S. 36° 28′ W.	507.2	0	0	0	26
.770	268	67.9	160.8	40.0	70.6	S. 18° 14′ E.	97.7	0	0	0	27
.778	170	119.0	0	94.4	13.0	N. 34° 22′ W.	144.2	7 a.m.	2 p.m.	T	28
24.050	320	109.8	104.6	152.4	60.3	N. 86° 46′ W.	92.2	0	0	0	29
.290	167	100.9	27.3	28.0	59.1	N. 22° 55′ E.	79.9	0	0	0	30
.273	203	35.7	112.4	7.0	114.7	S. 54° 33′ E.	132.2	0	0	0	31
742.536	7632	2302.9	2954.0	2753.4	1869.8	.....	.....	.....	0	.16	.....
23.953	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MONTHLY SUMMARY OF

APRIL,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes. Max.	Extremes. Min.	Max.	Min.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent
1	54.8	69	37	2 p.m.	1 a.m.	61	29	58	31	32	48	22	295	721	41
2	57.7	68	48	4 p.m.	3 a.m.	56	43	33	37	41	33	11	461	725	64
3	52.9	63	44	3 p.m.	7 a.m.	48	28	38	31	27	29	9	405	728	56
4	39.9	50	35	4 p.m.	12 n't	92	52	67	35	26	33	21	257	730	35
5	43.1	59	31	5 p.m.	6 a.m.	91	49	71	30	28	42	24	252	733	34
6	47.1	54	38	1 p.m.	7 a.m.	55	46	28	24	33	42	12	485	736	66
7	49.2	58	35	4 p.m.	12 n't	57	40	47	27	32	34	6	579	739	78
8	42.8	58	32	4 p.m.	7 a.m.	82	46	47	30	32	34	12	381	742	51
9	54.4	69	39	2 p.m.	1 a.m.	72	19	26	34	23	27	7	546	744	73
10	62.5	78	42	4 p.m.	6 a.m.	55	18	21	30	29	30	15	419	748	56
11	51.2	60	40	4 p.m.	7 a.m.	86	61	53	37	39	38	11	438	752	58
12	43.0	52	32	4 p.m.	6 a.m.	73	38	36	26	22	23	4	530	754	70
13	43.4	55	29	5 p.m.	7 a.m.	71	42	37	22	28	28	22	160	756	21
14	55.8	75	31	3 p.m.	6 a.m.	66	22	15	25	29	19	4	611	759	80
15	52.2	61	44	1 p.m.	5 a.m.	49	14	48	32	17	36	16	321	762	42
16	38.4	46	28	5 p.m.	12 n't	75	57	53	28	27	28	13	226	764	30
17	45.5	67	24	2 p.m.	5 a.m.	49	25	24	22	25	24	11	452	767	59
18	33.0	40	30	11 a.m.	12 n't	71	75	91	22	28	30	23	25	769	3
19	27.2	30	22	1 a.m.	1 p.m.	89	77	77	26	20	20	30	0	771	0
20	22.2	26	17	2 p.m.	12 n't	97	88	88	19	20	19	30	388	773	50
21	25.0	32	12	4 p.m.	6 a.m.	83	90	70	10	28	21	3	598	776	77
22	44.4	61	26	1 p.m.	1 a.m.	56	29	47	20	23	34	1	552	779	71
23	52.8	64	40	5 p.m.	1 a.m.	78	18	28	26	18	27	2	529	782	65
24	45.5	60	26	11 a.m.	12 n't	56	48	92	31	36	35	22	191	785	24
25	25.9	31	20	9 p.m.	8 a.m.	88	88	100	19	21	30	30	102	788	13
26	44.3	64	26	4 p.m.	6 a.m.	89	51	50	26	40	38	15	343	791	43
27	47.5	65	34	3 p.m.	6 a.m.	75	41	70	29	37	39	13	358	794	45
28	42.6	61	30	1 p.m.	12 n't	100	45	75	34	41	39	22	279	796	35
29	26.1	30	23	1 a.m.	12 n't	75	79	100	17	24	25	30	0	799	0
30	27.2	33	22	1 p.m.	2 a.m.	88	90	90	21	29	28	30	28	800	4
Sums,	1297.6	1639	937	.....	.....	2183	1448	1680	801	855	933	471	....	....	1344
Means,	43.2	54.6	31.2	.....	.....	73	48	56	27	28	31	16	....	....	....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	52%	....	....	45%

INSTRUMENTAL RECORD.

1907.

Barometer.	Anemometer and Anemoscope.							Rain Gauge.			Date.
	Wind.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.033	141	46.8	52.0	64.6	22.4	S. 82° 58′ W.	42.5	0	0	0	1
23.953	226	71.5	64.2	151.4	10.9	N. 87° 02′ W.	140.7	0	0	0	2
.908	340	211.4	48.7	159.8	37.4	N. 36° 57′ W.	203.6	10 p.m.	.....	.....	3
24.088	262	181.6	31.4	95.9	43.1	N. 2° 01′ W.	159.2	.....	7 a.m.	.44	4
23.807	113	44.6	43.2	31.5	23.8	N. 79° 42′ W.	7.8	0	0	0	5
.727	329	218.8	9.1	117.8	37.3	N. 20° 53′ W.	224.4	0	0	0	6
.824	588	415.3	0	390.4	9.1	N. 42° 29′ W.	563.1	0	0	0	7
24.171	148	29.9	73.0	2.8	98.4	S. 65° 44′ E.	104.9	0	0	0	8
.059	140	27.5	76.5	7.4	78.1	S. 55° 16′ E.	86.0	0	0	0	9
23.869	261	138.3	21.3	154.9	33.7	N. 46° 00′ W.	168.5	0	0	0	10
24.085	253	117.3	95.1	4.4	95.5	N. 76° 18′ E.	93.9	0	0	0	11
.191	195	2.4	127.5	0	140.4	S. 48° 18′ E.	188.0	0	0	0	12
.073	94	24.7	37.8	16.1	26.8	S. 39° 14′ E.	16.9	0	0	0	13
23.867	260	135.2	26.7	137.5	22.4	N. 46° 41′ W.	158.2	0	0	0	14
.968	288	73.7	157.2	5.3	150.9	S. 60° 10′ E.	167.9	0	0	0	15
24.106	243	0	141.2	0	180.5	S. 51° 58′ E.	229.1	0	0	0	16
23.784	317	179.0	56.3	114.2	52.7	N. 26° 37′ W.	137.3	0	0	0	17
24.002	163	78.2	60.4	5.9	47.9	N. 67° 58′ W.	45.4	.....	.....	.07	18
23.972	324	212.5	74.3	81.1	87.9	N. 2° 49′ E.	138.3	.....	.....	.08	19
24.267	137	77.6	6.8	12.4	68.7	N. 38° 25′ E.	90.5	.....	.....	.69	20
.144	103	27.7	40.3	24.1	39.9	S. 51° 26′ E.	20.2	.....	.....	T	21
23.954	243	224.7	0	16.9	35.1	N. 4° 38′ E.	225.4	0	0	0	22
.930	165	51.2	82.8	35.4	47.5	S. 20° 57′ E.	33.8	0	0	0	23
.853	282	241.7	17.9	23.1	45.1	N. 5° 37′ E.	224.9	.....	.....	.01	24
24.027	235	76.6	124.2	0.3	102.2	S. 64° 58′ E.	112.5	.....	.....	.07	25
23.869	176	39.5	106.4	18.0	72.0	S. 14° 14′ E.	69.2	.....	5 p.m.	T	26
.913	211	123.7	46.7	41.2	58.7	N. 43° 15′ E.	106.7	0	0	0	27
.852	217	145.8	37.7	6.9	80.0	N. 34° 04′ E.	130.5	.....	.....	T	28
24.021	262	140.5	86.3	0	103.7	N. 62° 24′ E.	117.0	.....	.....	.16	29
.054	125	4.8	83.3	0	84.2	S. 47° 00′ E.	115.1	.....	5 p.m.	.06	30
719.371	6841	3441.0	1828.3	1720.3	1936.3	.....	.....	.....	.....	1.58	....
23.979	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

MONTHLY SUMMARY OF

MAY,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes.				6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent.
		Max.	Min.	Max.	Min.										
1	35.6	46	27	4 p.m.	6 a.m.	100	85	85	28	35	35	28	171	802	21
2	31.5	42	24	11 a.m.	12 n't	82	91	89	28	32	24	19	196	804	24
3	31.2	42	17	5 p.m.	5 a.m.	88	91	77	19	32	32	21	0	807	0
4	36.2	49	29	9 a.m.	5 a.m.	100	77	92	29	32	34	26	11	808	1
5	34.5	41	31	3 p.m.	12 n't	100	100	100	32	35	36	30	0	810	0
6	38.1	49	31	3 p.m.	1 a.m.	100	73	86	33	36	39	30	0	813	0
7	42.2	52	36	10 a.m.	6 a.m.	76	64	80	31	37	38	26	65	816	8
8	45.0	53	33	3 p.m.	6 a.m.	100	70	64	36	39	37	14	215	819	26
9	47.8	59	35	12 m.	6 a.m.	85	54	61	34	39	40	14	206	822	25
10	54.5	67	37	3 p.m.	5 a.m.	72	50	50	34	44	44	1	590	824	72
11	60.4	74	40	5 p.m.	3 a.m.	75	40	55	39	43	54	10	387	827	47
12	59.6	66	43	1 p.m.	12 n't	51	33	39	40	35	34	10	405	829	49
13	36.0	44	30	1 a.m.	12 n't	84	91	74	32	30	27	23	143	832	17
14	35.1	47	26	2 p.m.	5 a.m.	79	47	69	24	25	28	20	120	833	14
15	49.1	62	28	3 p.m.	3 a.m.	77	48	48	32	40	40	11	502	834	60
16	59.9	75	43	5 p.m.	6 a.m.	55	30	44	35	36	47	6	656	835	79
17	62.3	73	49	12 m.	3 a.m.	62	42	22	41	47	29	11	448	836	54
18	57.5	64	49	5 p.m.	6 a.m.	61	41	63	40	38	50	21	336	837	40
19	57.5	69	46	2 p.m.	5 a.m.	100	37	47	47	26	43	17	459	839	55
20	61.3	78	45	5 p.m.	4 a.m.	88	29	22	45	41	31	14	....	840	....
21	64.0	80	48	3 p.m.	3 a.m.	55	16	29	41	28	36	17	337	841	40
22	63.4	76	49	12 m.	4 a.m.	71	17	23	41	27	33	13	257	843	30
23	58.3	73	48	12 m.	3 a.m.	77	24	46	45	34	42	17	318	845	38
24	53.3	58	43	12 m.	3 a.m.	33	32	59	23	24	35	13	258	846	31
25	43.7	52	36	10 a.m.	5 a.m.	86	58	80	36	34	39	20	150	848	18
26	41.7	47	35	4 p.m.	5 a.m.	80	53	55	39	29	30	19	40	849	5
27	41.9	55	37	4 p.m.	6 a.m.	55	42	51	24	28	36	19	157	851	18
28	46.2	53	41	12 m.	5 a.m.	67	56	75	33	38	39	22	0	852	0
29	46.8	53	41	4 p.m.	4 a.m.	42	65	70	26	39	39	12	275	854	32
30	43.3	46	40	2 p.m.	12 n't	58	80	79	28	38	37	26	3	855	0
31	47.0	58	34	2 p.m.	5 a.m.	84	39	43	33	31	31	12	226	856	26
Sums,	1484.9	1803	1151	.....	.....	2343	1675	1877	1048	1072	1139	542	....	....	830
Means,	47.9	58.2	37.1	.....	.....	76	54	61	32	35	37	17	....	....	....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58%	....	....	28%*

*For 30 days.

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			
	WIND.							Hours of Fall.		Total Amount.	Date.
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.065	150	25.8	90.1	22.2	67.0	S. 34° 52′ E.	78.3	5 p.m.	5 p.m.	T	1
.062	279	275.1	0	8.2	25.3	N. 31° 52′ E.	32.4	12 m.	7 p.m.	.32	2
.178	224	50.6	122.7	1.7	120.3	S. 58° 40′ E.	138.6	0	0	0	3
23.946	240	209.3	12.9	2.9	49.7	N. 13° 24′ E.	201.9	6 p.m.	.....	T	4
.926	128	2.7	92.3	0	83.6	S. 43° 01′ E.	122.5	.....	.....	.16	5
.925	101	29.5	31.0	9.6	62.8	S. 88° 23′ E.	53.2	.....	5 p.m.	.32	6
.957	172	85.8	38.4	59.6	33.5	N. 28° 50′ W.	54.1	11 a.m.	.....	T	7
24.000	135	43.0	54.0	58.8	22.6	S. 73° 06′ W.	37.8	.....	1 p.m.	.02	8
.071	136	73.6	31.9	30.8	28.0	N. 3° 50′ W.	41.9	1 p.m.	2 p.m.	.20	9
.095	193	76.4	87.7	1.2	77.8	S. 81° 36′ E.	77.4	0	0	0	10
23.835	157	38.9	97.1	31.5	27.5	S. 3° 56′ W.	58.3	0	0	0	11
.486	347	39.9	252.9	121.1	36.4	S. 21° 41′ W.	229.2	0	0	0	12
.835	452	433.6	0	50.3	32.3	N. 2° 23′ W.	434.0	7 a.m.	.....	T	13
.987	290	264.7	3.6	22.6	51.1	N. 6° 14′ E.	262.6	4 p.m.	.....	T	14
24.067	364	317.3	0	118.9	13.8	N. 18° 19′ W.	334.3	.....	8 a.m.	T	15
.079	178	105.1	34.5	54.9	31.8	N. 18° 07′ W.	74.3	0	0	0	16
.032	163	91.2	45.4	54.3	16.6	N. 39° 28′ W.	59.3	0	0	0	17
.109	227	71.1	109.0	28.4	92.6	S. 59° 27′ E.	74.5	.....	.....	....	18
.130	[378]	14.3	81.2	4.5	55.1	S. 37° 06′ E.	83.9	.....	.....	.11	19
.006	[ ]	21.1	40.3	66.8	8.3	S. 71° 50′ W.	61.6	.....	.....	T	20
.002	185	82.8	33.6	79.3	33.8	N. 35° 49′ W.	60.7	.....	6 p.m.	T	21
23.962	149	61.7	51.5	59.4	13.5	N. 77° 28′ W.	47.0	0	0	0	22
.856	191	82.9	79.6	15.0	68.1	N. 86° 27′ E.	53.2	5 p.m.	5 p.m.	T	23
.806	264	204.7	0	63.3	66.5	N. 0° 54′ E.	204.7	0	0	0	24
.851	203	144.7	32.7	9.3	60.4	N. 24° 32′ E.	123.1	12 m.	.....	.16	25
24.220	300	282.9	1.0	7.2	60.3	N. 10° 40′ E.	286.9	0	0	0	26
.084	264	12.9	184.1	0	170.3	S. 44° 51′ E.	241.5	0	0	0	27
23.802	212	178.8	24.0	12.6	24.9	N. 4° 33′ E.	155.3	1 p.m.	.....	.25	28
.891	350	335.8	0	19.0	56.1	N. 6° 18′ E.	337.8	0	0	0	29
24.026	250	244.2	0	24.7	14.2	N. 2° 28′ W.	244.3	.....	.....	.11	30
.103	190	156.4	0	65.7	33.0	N. 11° 49′ W.	159.7	0	0	0	31
743.394	6872	.....	.....	.....	.....	.....	.....	.....	.....	1.65	....
23.980	.....	4056.8	1631.5	1103.8	1537.2	.....	.....	.....	.....	....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....

MONTHLY SUMMARY OF

JUNE,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			HOURS OF EXTREMES.		RELATIVE HUMIDITY.			DEW-POINT.			CLOUDS AT OBSERVATIONS	NUMBER OF MINUTES.		
	MEAN OF 24 HRS.	EXTREMES. MAX.	EXTREMES. MIN.	MAX.	MIN.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		ACTUAL.	POSSIBLE	PER CENT.
1	53.5	67	37	4 p.m.	5 a.m.	67	33	32	33	33	33	0	551	856	64
2	58.5	67	41	5 p.m.	4 a.m.	47	40	42	32	40	43	16	195	857	23
3	56.9	72	46	3 p.m.	5 a.m.	46	41	28	28	42	33	9	504	857	59
4	58.4	72	44	1 p.m.	5 a.m.	64	33	34	37	38	37	6	399	859	46
5	57.3	68	49	1 p.m.	6 a.m.	88	53	63	47	49	50	21	368	859	43
6	60.5	75	47	4 p.m.	5 a.m.	54	18	57	34	26	51	13	400	860	47
7	59.7	71	41	2 p.m.	5 a.m.	60	36	58	38	41	54	8	372	861	43
8	59.9	72	47	3 p.m.	2 a.m.	58	9	15	42	10	19	10	575	862	67
9	54.9	64	40	5 p.m.	5 a.m.	28	51	21	20	40	24	12	279	862	32
10	58.2	69	45	4 p.m.	5 a.m.	55	24	28	35	26	33	3	433	862	50
11	61.9	78	42	2 p.m.	5 a.m.	41	14	25	26	24	34	9	447	863	52
12	65.1	80	44	3 p.m.	5 a.m.	49	10	16	32	18	25	2	616	863	71
13	66.9	78	50	5 p.m.	5 a.m.	50	11	11	33	18	21	1	610	863	71
14	67.8	79	51	3 p.m.	5 a.m.	26	10	13	22	18	22	0	604	863	70
15	66.1	82	44	3 p.m.	5 a.m.	19	12	18	11	23	29	3	493	863	57
16	62.5	75	52	11 a.m.	5 a.m.	27	36	44	23	38	42	24	8	863	1
17	61.5	71	48	2 p.m.	6 a.m.	44	34	34	29	40	40	22	117	863	14
18	60.2	67	50	3 p.m.	5 a.m.	71	30	37	43	34	39	19	202	864	24
19	56.9	66	48	3 p.m.	5 a.m.	54	44	34	34	42	37	22	204	864	24
20	57.3	67	49	3 p.m.	5 a.m.	54	41	43	34	42	41	20	143	865	16
21	59.3	73	43	1 p.m.	4 a.m.	50	27	37	33	33	39	12	85	865	10
22	66.2	79	48	5 p.m.	5 a.m.	48	13	15	36	22	23	0	604	865	70
23	64.5	76	50	4 p.m.	5 a.m.	46	26	21	37	36	32	1	466	865	54
24	65.6	80	50	2 p.m.	5 a.m.	47	12	31	34	23	44	0	387	864	45
25	57.2	63	53	3 p.m.	5 a.m.	39	57	70	31	46	50	15	386	864	45
26	57.0	66	48	12 m.	5 a.m.	65	63	79	39	51	50	19	59	863	7
27	59.7	70	47	3 p.m.	5 a.m.	72	40	35	44	43	38	12	241	863	28
28	65.8	81	48	2 p.m.	5 a.m.	73	13	20	46	26	23	11	287	863	33
29	70.9	87	52	5 p.m.	2 a.m.	45	17	20	41	32	36	6	338	863	39
30	64.0	75	55	10 a.m.	4 a.m.	56	29	66	49	41	54	19	140	863	16
Sums,	1834.2	2190	1409	.....	.....	1543	877	1047	1023	995	1096	315	.....	.....	1221
Means,	61.1	73.0	47.0	.....	.....	51	29	35	34	33	37	10	.....	.....	.....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35%	.....	.....	41%

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			
	WIND.							Hours of Fall.		Total Amount.	Date.
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.080	154	42.7	90.8	9.4	56.5	S. 44° 24′ E.	67.3	0	0	0	1
23.929	249	130.6	93.1	23.8	67.9	N. 49° 38′ E.	57.9	1 p.m.	7 p.m.	T	2
.909	280	163.2	45.1	100.7	59.9	N. 19° 03′ W.	125.0	0	0	0	3
24.036	154	26.9	72.3	17.7	89.9	S. 58° 01′ E.	85.7	11 p.m.	11 p.m.	T	4
.092	214	2.0	149.4	0	145.1	S. 44° 33′ E.	206.8	10 p.m.	11 p.m.	04	5
23.859	151	74.8	18.9	61.7	34.2	N. 26° 12′ W.	62.3	0	0	0	6
.894	220	56 8	126.9	1.6	97.6	S. 53° 52′ E.	118.9	0	0	0	7
.823	303	155.2	109.0	96.5	18.8	N. 59° 16′ W.	90.4	0	0	0	8
.853	256	207.3	17.2	41.0	51.1	N. 3° 02′ E.	190.3	11 a.m.	12 m.	T	9
24.039	175	26.0	108.1	12.6	95.5	S. 45° 17′ E.	116.6	0	0	0	10
23.986	183	67.5	98.2	18.3	48.7	S. 44° 43′ E.	43.2	0	0	0	11
.848	254	52.4	183.9	51.9	10.5	S. 17° 28′ W.	137.8	0	0	0	12
.906	208	39.9	54.3	15.4	36.1	S. 55° 10′ E.	25.2	0	0	0	13
.902	229	36.4	171.3	23.4	53.2	S. 12° 28′ E.	138.1	0	0	0	14
934	340	31.3	271.4	1.7	101.6	S. 22° 36′ E.	260.1	0	0	0	15
24.130	179	103.7	47.4	18.5	47.7	N. 27° 25′ E.	63.4	0	0	0	16
.276	171	165.7	0	18.1	11.8	N. 2° 11′ W.	165.8	10 p.m.	11 p.m.	10	17
.406	158	60.0	77.7	1.4	61.3	S. 73° 32′ E.	62.4	0	0	0	18
.172	208	5.9	134.5	37.8	102.0	S. 26° 32′ E.	143.7	0	0	0	19
23.995	101	16.2	49.4	8.7	56.8	S. 55° 23′ E.	58.4	0	0	0	20
.912	171	93.5	18.3	61.2	46.0	N. 11° 26′ W.	76.7	.....	.....	04	21
.860	200	40.7	131.7	70.6	17.6	S. 30° 13′ W.	105.3	0	0	0	22
24.056	215	44.6	127.4	13.6	98.4	S. 45° 41′ E.	118.5	0	0	0	23
.051	230	140.9	63.9	17.2	66.9	N. 32° 51′ E.	91.6	0	0	0	24
.204	288	62.0	160.4	0	150.3	S. 56° 48′ E.	179.6	0	0	0	25
.210	190	131.3	29.6	3.2	61.8	N. 29° 57′ E.	117.4	2 p.m.	3 p.m.	02	26
.160	111	33.3	57.1	13.1	35.0	S. 42° 37′ E.	32.3	0	0	0	27
.076	164	60.9	91.7	12.4	31.5	S. 31° 48′ E.	36.2	0	0	0	28
.022	200	137.1	44.7	10.7	47.4	N. 21° 40′ E.	99.4	0	0	0	29
.097	142	69.3	50.6	10.3	50.2	N. 64° 53′ E.	44.0	3 p.m.	8 p.m.	20	30
720.717	6098	2278.1	2694.3	772.5	1851.3	.....	.....	.....	.....	0.40	....
24.024	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

MONTHLY SUMMARY OF

JULY,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes.				6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent.
		Max.	Min.	Max.	Min.										
1	63.4	79	50	2 p.m.	5 a.m.	68	28	45	46	41	45	17	370	862	43
2	66.5	80	52	12 m.	5 a.m.	63	35	28	42	49	39	9	655	862	76
3	67.2	83	50	12 m.	5 a.m.	47	26	25	39	43	39	10	580	862	67
4	71.9	88	54	1 p.m.	5 a.m.	51	18	30	45	39	42	7	470	860	55
5	72.7	83	59	12 m.	12 n't	24	24	24	32	42	40	9	340	860	40
6	67.7	83	51	2 p.m.	5 a.m.	48	36	33	45	50	41	10	421	860	49
7	67.0	82	51	1 p.m.	4 a.m.	53	34	40	49	47	47	14	410	860	48
8	69.2	82	55	4 p.m.	2 a.m.	59	34	31	49	50	41	13	350	859	41
9	65.8	81	53	1 p.m.	5 a.m.	52	32	41	42	47	46	13	425	859	50
10	66.7	78	55	1 p.m.	4 a.m.	57	28	37	52	41	46	9	440	857	51
11	64.8	76	55	1 p.m.	5 a.m.	69	55	55	48	53	53	12	615	857	72
12	67.3	82	56	1 p.m.	5 a.m.	61	30	33	54	46	42	12	585	856	68
13	66.2	80	55	2 p.m.	5 a.m.	62	43	53	49	46	67	14	330	856	39
14	60.7	73	53	4 p.m.	5 a.m.	73	54	39	46	45	45	18	245	854	29
15	66.7	83	48	3 p.m.	5 a.m.	67	25	12	43	39	23	0	550	852	64
16	64.6	73	53	4 p.m.	5 a.m.	63	24	32	42	32	39	2	720	850	85
17	68.1	82	58	2 p.m.	6 a.m.	61	28	33	55	45	42	2	550	849	65
18	70.9	88	50	4 p.m.	6 a.m.	66	15	20	40	30	33	7	510	847	60
19	72.3	85	61	2 p.m.	6 a.m.	42	17	26	40	34	43	5	540	846	64
20	71.1	88	57	2 p.m.	5 a.m.	55	24	34	42	44	47	11	475	844	57
21	70.3	85	57	3 p.m.	2 a.m.	44	20	40	38	36	47	19	405	843	48
22	67.5	80	56	3 p.m.	4 a.m.	52	47	33	42	54	42	14	420	841	50
23	71.3	90	53	3 p.m.	5 a.m.	49	28	18	37	45	36	8	570	839	68
24	73.1	88	59	3 p.m.	3 a.m.	36	26	32	38	43	45	12	455	837	54
25	64.5	80	59	10 a.m.	5 a.m.	48	88	85	40	54	57	21	130	837	16
26	58.5	64	57	3 p.m.	12 n't	89	95	95	55	57	58	30	0	836	0
27	62.1	74	57	1 p.m.	5 a.m.	95	53	80	58	56	56	29	175	835	21
28	62.2	73	54	10 a.m.	12 n't	84	68	88	54	55	55	22	305	833	37
29	62.7	78	52	4 p.m.	5 a.m.	83	53	57	50	56	62	11	580	831	70
30	67.6	81	55	3 p.m.	3 a.m.	75	34	34	52	47	46	15	365	829	44
31	62.2	69	57	1 p.m.	5 a.m.	55	61	73	41	55	57	19	355	827	43
Sums,	2072.8	2491	1692	.....	.....	1851	1183	1346	1405	1421	1421	394	....	....	1574
Means,	66.9	80.4	54.6	.....	.....	60	38	43	45	46	46	13	....	....	....
Perc'g,	.....	.....	.....	.....	.....	....	....	....	....	....	....	42%	....	....	51%

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			Date.
	WIND.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.209	148	73.8	45.5	38.7	25.4	N. 25° 10′ W.	31.2	3 p.m.	4 p.m.	10	1
.244	172	42.8	105.1	13.3	53.6	S. 32° 54′ E.	74.2	0	0	0	2
.219	162	59.7	67.1	20.3	64.6	S. 80° 31′ E.	44.9	.....	.....	T	3
.163	131	82.0	24.3	18.7	33.6	N. 14° 29′ E.	59.6	0	0	0	4
.213	243	196.0	5.4	65.6	15.2	N. 14° 49′ W.	197.2	0	0	0	5
.107	163	32.2	93.2	4.2	89.9	S. 54° 34′ E.	105.2	.....	.....	T	6
.095	231	225.1	0	44.9	20.2	N. 6° 16′ W.	226.5	0	0	0	7
.065	223	87.7	50.3	113.2	38.3	N. 63° 28′ W.	83.7	.....	.....	T	8
.085	216	133.9	27.1	82.7	27.6	N. 27° 18′ W.	120.2	3 p.m.	4 p.m.	.09	9
.109	164	157.7	16.2	17.3	17.7	N. 0° 10′ E.	141.5	0	0	0	10
.201	158	30.8	89.5	0.6	81.0	S. 53° 52′ E.	99.6	2 a.m.	3 p.m.	.10	11
.119	140	62.0	44.4	24.2	37.3	N. 36° 40′ E.	21.9	0	0	0	12
.007	206	158.1	9.3	87.5	6.8	N. 28° 28′ W.	169.3	8 p.m.	9 p.m.	T	13
23.884	136	98.2	20.5	26.2	19.3	N. 5° 04′ W.	78.0	1 a.m.	2 a.m.	20	14
.877	162	68.8	54.4	47.4	16.9	N. 64° 44′ W.	33.7	0	0	0	15
24.180	305	91.6	117.9	42.2	94.1	S. 63° 08′ E.	58.2	0	0	0	16
.147	184	4.7	133.0	1.6	107.9	S. 39° 38′ E.	166.6	0	0	0	17
.119	161	72.2	19.5	26.7	14.9	N. 12° 37′ W.	54.0	0	0	0	18
.173	214	130.3	39.2	12.9	70.8	N. 32° 26′ E.	108.0	0	0	0	19
.070	195	157.6	14.7	13.2	41.3	N. 11° 08′ E.	145.6	2 p.m.	4 p.m.	T	20
.138	166	116.0	21.9	42.6	20.2	N. 13° 23′ W.	96.7	0	0	0	21
.223	[292]	27.0	31.8	8.8	29.2	S. 76° 46′ E.	21.0	0	0	0	22
.141	[ ]	26.0	14.5	10.7	39.0	N. 67° 53′ E.	30.6	0	0	0	23
.084	151	108.8	25.3	35.4	21.0	N. 9° 47′ W.	84.7	0	0	0	24
.121	154	121.1	14.9	34.5	19.2	N. 8° 12′ W.	107.3	12 m.	12 n't	38	25
.156	137	42.3	63.8	12.7	62.7	S. 66° 44′ E.	54.4	1 a.m.	12 n't	60	26
.054	134	95.6	11.2	52.2	18.5	N. 21° 46′ W.	90.9	7 p.m.	.....	51	27
.216	123	61.2	41.0	11.1	32.8	N. 46° 03′ E.	29.6	6 p.m.	9 p.m.	.06	28
.242	106	39.5	32.0	19.1	39.8	N. 70° 05′ E.	22.0	0	0	0	29
.302	173	104.0	48.2	44.1	5.1	N. 34° 57′ W.	68.1	.....	.....	T	30
.302	174	88.9	55.3	11.4	59.0	N. 54° 47′ E.	58.3	4 p.m.	6 p.m.	.07	31
748.265	5324	2795.6	1336.5	984.0	1222.9	.....	.....	.....	.....	2.11	.....
24.138	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MONTHLY SUMMARY OF

AUGUST,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes. Max.	Extremes. Min.	Max.	Min.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent.
1	62.5	76	52	2 p.m.	5 a.m.	73	55	95	46	53	57	25	295	824	36
2	61.9	74	53	2 p.m.	5 a.m.	89	56	68	52	55	54	18	200	821	24
3	62.2	72	56	3 p.m.	2 a.m.	80	55	68	53	54	54	20	215	818	26
4	69.0	83	56	3 p.m.	2 a.m.	68	20	36	53	35	47	8	420	816	51
5	69.0	82	52	3 p.m.	5 a.m.	45	15	29	35	30	41	0	310	814	38
6	72.5	86	56	2 p.m.	1 a.m.	42	22	31	40	39	44	10	425	812	52
7	68.7	83	56	2 p.m.	12 n't	52	28	47	47	44	52	7	135	809	17
8	71.5	86	54	3 p.m.	3 a.m.	51	17	25	34	34	39	5	655	807	81
9	72.0	87	58	1 p.m.	1 a.m.	50	27	31	48	46	44	13	350	805	43
10	73.5	87	57	1 p.m.	2 a.m.	52	18	27	47	36	42	6	515	803	64
11	62.6	79	50	3 p.m.	5 a.m.	55	31	36	41	38	40	3	575	800	72
12	64.0	78	44	2 p.m.	5 a.m.	54	40	51	39	48	51	14	245	798	31
13	65.6	82	55	3 p.m.	12 n't	46	23	56	37	38	49	7	195	796	25
14	68.2	84	50	12 m.	3 a.m.	57	24	44	44	42	48	8	350	794	44
15	73.1	84	61	2 p.m.	12 n't	54	17	17	52	33	33	10	695	792	88
16	68.7	86	54	2 p.m.	6 a.m.	69	20	24	48	38	38	10	545	790	69
17	69.0	86	52	2 p.m.	5 a.m.	59	15	35	40	31	45	3	475	787	60
18	67.3	86	55	2 p.m.	5 a.m.	52	21	54	47	40	52	12	185	784	24
19	59.6	71	53	1 p.m.	6 a.m.	78	68	75	47	54	52	21	240	780	31
20	54.4	63	48	6 p.m.	4 a.m.	83	88	80	47	49	43	27	20	777	3
21	58.0	72	49	2 p.m.	4 a.m.	78	61	78	47	43	49	22	180	773	23
22	65.2	80	53	3 p.m.	5 a.m.	83	23	35	50	36	45	11	506	772	65
23	67.5	86	51	3 p.m.	4 a.m.	73	20	22	46	35	37	4	720	770	93
24	66.2	86	51	3 p.m.	5 a.m.	73	19	34	46	34	44	15	330	769	43
25	66.4	85	51	12 m.	5 a.m.	78	23	57	42	42	51	13	....	767	58
26	66.0	79	49	2 p.m.	5 a.m.	58	26	48	42	40	50	15	....	764	43
27	60.5	75	50	3 p.m.	5 a.m.	77	51	52	46	57	47	20	....	760	37
28	63.6	81	50	2 p.m.	3 a.m.	77	24	38	45	38	44	11	....	758	56
29	59.1	72	49	1 p.m.	2 a.m.	64	34	85	45	52	55	12	....	755	37
30	62.7	76	55	11 a.m.	5 a.m.	84	26	36	51	36	16	20	....	752	40
31	61.1	70	52	1 p.m.	4 a.m.	57	38	48	44	41	46	29	....	750	43
Sums,	2031.6	2477	1632	.....	.....	2011	1005	1462	1401	1291	1409	399	....	....	1417
Means,	65.5	79.9	52.6	.....	.....	65	32	47	45	42	45	13	....	....	....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43%	....	....	46%

INSTRUMENTAL RECORD.

1907.

Barometer.	Anemometer and Anemoscope.							Rain Gauge.			Date.
	Wind.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.199	137	81.0	16.3	56.7	23.5	N. 27° 10′ W.	72.7	.....	.....	1.17	1
.156	112	44.3	48.1	6.1	43.1	S. 84° 08′ E.	37.2	7 p.m.	9 p.m.	.06	2
.122	149	30.2	69.2	0	101.4	S. 68° 58′ E.	108.6	0	0	0	3
.025	210	162.2	0	100.3	7.3	N. 29° 50′ W.	187.0	.....	.....	T	4
.139	145	93.8	23.0	38.8	26.5	N. 7° 52′ W.	71.5	0	0	0	5
.225	161	123.9	3.7	62.4	21.4	N. 18° 50′ W.	127.0	0	0	0	6
.227	148	115.5	3.8	35.9	29.3	N. 3° 23′ W.	111.9	.....	.....	T	7
.261	146	80.0	41.1	9.4	48.3	N. 45° 00′ E.	55.0	0	0	0	8
.136	146	100.1	18.6	44.3	23.0	N. 14° 39′ W.	84.3	0	0	0	9
.047	186	64.9	61.6	97.4	10.0	N. 87° 50′ W.	87.5	0	0	0	10
.195	298	106.4	125.2	24.6	136.0	S. 80° 25′ E.	113.0	0	0	0	11
.156	142	37.7	49.8	72.3	19.9	S. 77° 00′ W.	53.8	.....	.....	T	12
.235	123	94.4	3.7	42.6	15.3	N. 16° 45′ W.	94.7	.....	.....	07	13
.183	148	105.8	16.0	26.8	26.4	N. 0° 15′ W.	89.8	0	0	0	14
.115	235	106.7	15.0	120.6	19.4	N. 34° 47′ W.	177.4	0	0	0	15
.143	138	72.1	42.7	0	47.6	N. 58° 18′ E.	56.0	0	0	0	16
.183	140	108.6	13.6	10.7	27.1	N. 9° 48′ E.	96.4	.....	.....	T	17
.086	[647]	66.3	2.5	11.2	18.2	N. 6° 16′ E.	64.2	.....	.....	T	18
.286	[ ]	30.2	24.6	1.2	34.0	N. 80° 19′ E.	33.3	.....	.....	05	19
.265	[ ]	0	54.0	0	56.0	S. 46° 03′ E.	77.8	.....	.....	T	20
.217	[ ]	20.4	54.3	13.6	48.0	S. 45° 25′ E.	48.3	4 p.m.	6 p.m.	46	21
.132	108	66.6	12.2	43.4	14.1	N. 28° 19′ W.	61.8	0	0	0	22
.220	128	116.3	0	10.3	20.5	N. 5° 01′ E.	116.8	0	0	0	23
.195	188	97.0	73.2	18.8	30.9	N. 27° 15′ E.	26.4	0	0	0	24
.003	145	96.7	3.4	51.6	15.6	N. 21° 06′ W.	100.0	.....	.....	T	25
.012	125	28.2	70.9	7.6	54.8	S. 47° 52′ E.	63.6	0	0	0	26
.080	118	64.3	40.0	2.0	35.8	N. 54° 17′ E.	41.6	.....	.....	T	27
.076	138	70.5	44.6	30.1	19.0	N. 23° 12′ W.	28.2	0	0	0	28
.078	129	67.8	31.8	39.8	22.7	N. 25° 25′ W.	39.9	3 p.m.	6 p.m.	10	29
23.956	160	10.3	116.0	4.0	61.9	S. 28° 43′ E.	120.5	.....	.....	T	30
24.235	196	176.0	0	59.9	7.3	N. 16° 38′ W.	183.7	0	0	0	31
748.588	4846	2438.2	1078.9	1042.4	1064.3	.....	.....	.....	.....	1.91	....
24.148	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

MONTHLY SUMMARY OF

SEPTEMBER,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes. Max.	Extremes. Min.	Max.	Min.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent.
1	60.5	73	51	12 m.	5 a.m.	76	41	57	44	46	52	12	317	745	43
2	64.1	79	47	1 p.m.	5 a.m.	71	36	28	42	43	39	5	599	742	81
3	65.3	81	50	3 p.m.	5 a.m.	77	20	31	45	35	41	4	594	739	81
4	63.2	76	49	2 p.m.	6 a.m.	70	34	49	41	44	47	16	501	737	68
5	63.5	81	55	3 p.m.	6 a.m.	95	65	42	53	56	47	10	280	734	38
6	66.7	81	51	2 p.m.	6 a.m.	53	19	23	38	31	35	(?)8	526	732	72
7	61.0	74	53	11 a.m.	5 a.m.	68	33	54	44	41	45	15	366	729	50
8	53.5	69	44	3 p.m.	6 a.m.	68	58	54	34	48	45	18	195	725	27
9	51.6	62	43	4 p.m.	3 a.m.	86	36	40	40	33	32	8	585	722	81
10	56.1	75	33	4 p.m.	6 a.m.	91	10	26	32	14	31	0	684	720	95
11	64.5	78	48	3 p.m.	2 a.m.	46	17	19	32	27	26	2	660	715	92
12	67.5	83	48	3 p.m.	3 a.m.	36	12	18	29	25	29	10	540	711	76
13	66.2	78	54	4 p.m.	6 a.m.	37	22	23	31	34	33	16	95	706	13
14	62.6	78	51	2 p.m.	12 n't	37	23	67	36	35	51	21	98	704	14
15	63.3	80	45	3 p.m.	3 a.m.	64	23	23	37	36	33	7	561	702	80
16	66.5	80	50	4 p.m.	6 a.m.	51	17	33	34	30	42	2	586	700	84
17	68.3	82	53	3 p.m.	12 n't	52	17	25	37	30	34	4	471	697	68
18	65.0	79	50	2 p.m.	5 a.m.	56	15	40	37	27	43	13	440	696	63
19	64.6	77	48	3 p.m.	12 n't	44	24	41	37	37	45	0	635	694	92
20	50.3	60	36	3 p.m.	6 a.m.	70	26	40	29	25	32	3	612	693	88
21	53.5	67	36	3 p.m.	5 a.m.	70	25	52	30	28	42	0	570	690	83
22	57.3	76	37	4 p.m.	6 a.m.	85	8	15	35	12	19	10	507	689	74
23	60.6	78	40	3 p.m.	6 a.m.	35	12	41	19	20	45	0	613	687	89
24	57.3	66	48	3 p.m.	12 n't	44	35	41	29	36	37	6	563	685	82
25	58.5	78	42	3 p.m.	5 a.m.	68	29	41	34	34	45	17	43	681	6
26	59.5	75	48	3 p.m.	4 a.m.	60	24	68	44	36	46	18	367	679	54
27	53.7	67	40	2 p.m.	6 a.m.	86	26	60	36	29	44	1	546	675	81
28	54.5	70	36	3 p.m.	4 a.m.	92	37	63	35	39	51	2	511	671	76
29	49.2	57	38	1 p.m.	12 n't	85	59	86	39	43	39	14	536	668	80
30	43.8	56	33	5 p.m.	5 a.m.	84	80	44	32	39	29	19	152	666	23
Sums,	1792.2	2216	1357			1957	883	1244	1085	1013	1179	261			1954
Means,	59.7	73.9	45.2			65	29	41	36	34	39	9			
Perc'g,												29%			65%

INSTRUMENTAL RECORD.

1907.

Barometer.	Anemometer and Anemoscope.							Rain Gauge.			
	Wind.							Hours of Fall.		Total Amount.	Date.
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.276	113	60.3	22.2	43.6	8.8	N. 42° 25′ W.	51.6	.. a.m.	4 p.m.	T	1
.242	113	59.1	39.6	4.9	30.8	N. 54° 28′ E.	31.8	0	0	0	2
.144	135	108.5	9.6	2.2	28.9	N. 15° 53′ E.	102.4	0	0	0	3
.126	199	85.8	86.5	2.8	73.8	S. 89° 26′ E.	71.0	.....	.....	04	4
.134	118	62.6	36.5	0.4	42.6	N. 58° 16′ E.	49.6	0	0	0	5
.126	137	94.0	19.9	26.5	29.0	N. 1° 56′ E.	74.1	0	0	0	6
.104	[512]	105.0	0	17.5	3.9	N. 7° 23′ W.	105.9	.....	.....	01	7
.146	.....	.....	.....	.....	.....	.....	.....	0	0	0	8
.255	[ ]	113.8	3.6	0	37.2	N. 18° 39′ E.	116.3	.....	.. a.m.	.33	9
.186	130	66.3	49.5	7.9	36.4	N. 59° 29′ E.	33.1	0	0	0	10
.176	160	82.6	54.8	3.3	53.6	N. 54° 50′ E.	61.5	0	0	0	11
.086	168	94.3	40.9	60.2	6.7	N. 45° 04′ W.	75.6	0	0	0	12
.033	155	66.4	43.7	82.8	10.5	N. 72° 34′ W.	75.8	0	0	0	13
.165	119	62.3	16.0	39.9	40.2	N. 0° 22′ E.	46.3	3 p.m.	4 p.m.	T	14
.088	78	34.9	20.4	20.8	19.3	N 5° 54′ W.	14.6	0	0	0	15
.126	101	33.2	49.6	34.3	14.3	S. 50° 39′ W.	25.9	0	0	0	16
.047	152	69.9	27.5	66.6	26.8	N. 43° 11′ W.	58.2	0	0	0	17
.005	164	43.2	84.5	56.2	16.6	S. 43° 48′ W.	57.2	0	0	0	18
23.902	208	83.4	34.3	109.4	34.0	N. 56° 56′ W.	90.0	0	0	0	19
24.193	215	29.5	134.1	5.9	126.0	S. 48° 57′ E.	159.3	0	0	0	20
.244	220	174.6	21.2	12.0	52.7	N. 14° 52′ E.	158.7	0	0	0	21
.099	135	92.4	17.9	32.7	22.7	N. 7° 39′ W.	75.2	0	0	0	22
.025	157	91.9	46.6	17.2	39.9	N. 26° 37′ E.	50.7	0	0	0	23
.197	283	91.1	128.8	4.9	143.7	S. 74° 48′ E.	143.8	0	0	0	24
.137	126	83.0	12.7	50.5	0.5	N. 35° 25′ W.	86.3	0	0	0	25
23.990	271	179.1	66.8	27.4	63.2	N. 17° 41′ E.	117.9	0	0	0	26
24.051	158	44.0	76.9	18.8	68.7	S. 56° 36′ E.	59.8	.....	.....	T	27
23.967	156	39.0	96.2	6.9	51.0	S. 38° 37′ E.	70.6	0	0	0	28
.911	328	323.3	0	11.5	29.4	N. 3° 10′ E.	323.8	0	0	0	29
.935	151	79.6	51.4	19.8	30.0	N. 19° 53′ E.	30.0	.....	.. a.m.	30	30
23.116	4962	2553.2	1291.7	786.9	1141.2	.....	.....	.....	.....	0.68	....
24.104	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....

MONTHLY SUMMARY OF

OCTOBER,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORI			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes.				6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Pe cer
		Max.	Min.	Max.	Min.										
1	54.5	71	43	4 p.m.	1 a.m.	31	21	48	23	24	40	4	310	664	4
2	53.5	68	39	3 p.m.	7 a.m.	52	14	56	26	17	43	17	255	662	3
3	43.9	52	36	2 p.m.	12 n't	66	58	63	32	34	35	20	210	660	3
4	49.6	66	34	4 p.m.	6 a.m.	100	21	63	35	24	42	0	495	656	7
5	52.2	70	33	4 p.m.	6 a.m.	75	25	46	29	30	42	0	500	654	7
6	61.0	75	43	12 m.	3 a.m.	38	18	55	32	29	47	8	402	653	6
7	48.2	60	42	4 p.m.	7 a.m.	46	61	61	24	39	39	8	443	651	6
8	52.2	70	35	3 p.m.	6 a.m.	84	21	25	32	27	25	0	544	647	8
9	48.8	61	39	4 p.m.	6 a.m.	71	39	38	31	31	29	6	546	644	8
10	55.5	73	37	2 p.m.	1 a.m.	53	17	27	28	24	27	1	580	642	9
11	50.2	62	37	2 p.m.	6 a.m.	60	28	42	26	27	30	5	506	639	7
12	50.2	65	36	2 p.m.	4 a.m.	70	29	40	30	32	32	8	367	635	5
13	54.0	71	37	2 p.m.	6 a.m.	84	23	55	33	28	47	4	472	633	7
14	56.0	70	47	1 p.m.	5 a.m.	46	28	64	32	33	45	9	337	631	5
15	49.6	61	37	2 p.m.	6 a.m.	92	48	48	37	40	36	7	476	629	7
16	49.5	66	34	2 p.m.	6 a.m.	84	35	35	32	36	31	0	562	626	9
17	52.0	66	37	10 a.m.	3 a.m.	49	22	44	28	24	34	9	544	623	8
18	44.8	57	34	2 p.m.	6 a.m.	92	56	59	33	37	36	10	392	620	6
19	50.5	65	32	2 p.m.	3 a.m.	84	21	44	32	24	29	0	492	617	8
20	45.0	56	36	1 p.m.	7 a.m.	75	36	45	29	26	26	7	493	614	8
21	47.6	65	28	2 p.m.	6 a.m.	80	18	28	25	21	25	3	486	611	8
22	51.7	65	37	11 a.m.	7 a.m.	62	29	56	26	29	43	13	404	608	6
23	51.1	66	34	3 p.m.	5 a.m.	68	26	34	27	29	30	4	367	606	6
24	45.5	51	42	5 a.m.	10 p.m.	87	64	86	44	37	39	30	0	604	
25	45.2	55	41	11 a.m.	12 n't	79	56	80	37	38	40	25	155	601	2
26	47.8	60	34	2 p.m.	6 a.m.	76	30	54	30	28	34	0	534	597	8
27	40.4	46	35	2 p.m.	12 n't	75	67	50	29	33	24	14	372	596	6
28	50.3	69	33	1 p.m.	1 a.m.	77	28	42	33	33	35	10	272	595	4
29	48.0	60	34	3 p.m.	12 n't	78	29	50	36	27	33	2	525	592	8
30	45.9	61	29	3 p.m.	5 a.m.	91	29	56	30	27	37	7	487	589	8
31	49.6	60	40	2 p.m.	9 p.m.	28	28	80	22	25	39	15	237	587	4
Sums,	1544.3	1963	1135	.....	.....	2153	1025	1574	943	913	1094	246	....	....	20
Means,	49.8	63.3	36.6	.....	.....	69	33	51	30	29	35	8	....	....	..
Perc'g.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26%	....	....	66

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			Date.
	WIND.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
23.940	126	53.0	37.2	17.9	44.7	N. 59° 28′ E.	31.1	0	0	0	1
.861	238	189.8	23.2	33.2	43.3	N. 3° 28′ E.	166.9	0	0	0	2
24.232	315	261.8	29.5	20.9	67.6	N. 11° 22′ E.	236.9	0	0	0	3
.273	182	169.1	1.1	6.6	42.5	N. 12° 04′ E.	171.8	0	0	0	4
.133	139	80.4	39.5	0.5	43.1	N. 46° 10′ E.	59.1	0	0	0	5
23.906	289	251.5	0	45.8	49.3	N. 0° 48′ E.	251.5	0	0	0	6
24.247	338	262.4	24.3	180.1	25.9	N. 32° 56′ W.	283.3	.....	.. a.m.	05	7
.201	159	146.3	0	2.5	37.2	N. 13° 21′ E.	150.4	0	0	0	8
.387	154	60.1	66.8	3.6	66.6	S. 83° 56′ E.	63.3	0	0	0	9
.271	143	97.3	40.1	3.5	13.7	N. 10° 02′ E.	58.6	0	0	0	10
.268	182	74.6	75.7	6.7	74.4	S. 89° 04′ E.	67.7	0	0	0	11
.195	111	49.8	47.0	1.8	37.5	N. 85° 31′ E.	35.8	0	0	0	12
.076	145	89.3	30.4	28.8	27.2	N. 1° 33′ W.	58.9	0	0	0	13
.160	116	53.0	46.1	19.2	29.4	N. 55° 56′ E.	12.3	3 p.m.	4 p.m.	.01	14
.232	108	40.7	46.5	0	50.2	S. 83° 25′ E.	50.5	.....	.. a.m.	.02	15
.199	129	76.7	39.6	0.5	32.3	N. 40° 36′ E.	48.8	0	0	0	16
.299	238	229.8	0	22.0	15.3	N. 1° 40′ W.	229.9	0	0	0	17
.261	150	19.9	92.9	1.3	89.9	S. 50° 31′ E.	114.8	.....	.. a.m.	T	18
.099	215	209.2	0	8.9	24.8	N. 4° 21′ E.	209.7	0	0	0	19
.246	189	64.9	89.3	5.1	80.2	S. 72° 00′ E.	79.0	0	0	0	20
.167	144	130.3	4.1	3.1	29.8	N. 11° 57′ E.	129.0	0	0	0	21
.192	148	74.3	59.1	18.4	21.8	N. 12° 37′ E.	15.6	0	0	0	22
.115	144	75.6	50.5	0	37.6	N. 56° 16′ E.	45.2	0	0	0	23
.150	174	124.7	11.7	93.8	5.5	N. 38° 00′ W.	143.4	6 a.m.	.....	.39	24
.156	164	62.2	74.4	20.8	56.7	S. 71° 14′ E.	37.9	.....	.. a.m.	.22	25
.122	127	55.0	49.2	1.1	54.5	N. 83° 48′ E.	53.7	0	0	0	26
.247	206	28.8	126.2	2.5	121.0	S. 50° 35′ E.	153.4	0	0	0	27
23.838	169	115.7	19.9	43.6	23.7	N. 11° 44′ W.	97.9	0	0	0	28
24.010	139	88.3	41.4	10.7	23.9	N. 15° 43′ E.	48.7	0	0	0	29
.055	148	78.2	46.5	1.3	52.5	N. 58° 14′ E.	60.2	0	0	0	30
23.974	152	77.5	40.8	43.5	30.6	N. 19° 22′ W.	38.9	.....	.....	T	31
748.512	5381	3390.2	1253.0	647.7	1352.8	.....	.....	.....	.....	0.69	....
24.146	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MONTHLY SUMMARY OF

NOVEMBER,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes.				6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent.
		Max.	Min.	Max.	Min.										
1	43.9	55	31	2 p.m.	12 n't	82	29	40	30	23	25	0	529	586	90
2	45.3	65	28	2 p.m.	7 a.m.	90	19	44	28	20	29	0	540	582	93
3	46.3	60	32	2 p.m.	6 a.m.	57	18	28	27	16	20	0	524	579	90
4	45.6	58	34	3 p.m.	7 a.m.	47	26	37	21	22	32	0	474	578	82
5	44.0	57	29	2 p.m.	6 a.m.	39	19	37	13	16	20	0	575	576	89
6	49.1	65	32	1 p.m.	1 a.m.	33	12	16	20	14	11	16	141	574	25
7	48.4	59	40	3 a.m.	12 n't	38	29	35	26	23	22	10	344	572	60
8	41.7	56	30	2 p.m.	6 a.m.	81	31	34	25	23	17	4	476	570	84
9	41.8	57	28	1 p.m.	12 n't	41	27	38	22	23	22	0	484	568	85
10	22.8	32	11	4 a.m.	12 n't	39	75	87	22	16	17	29	0	566	0
11	17.1	26	6	2 p.m.	7 a.m.	76	12	87	9	12	17	2	405	565	72
12	23.4	39	7	3 p.m.	7 a.m.	92	27	70	6	7	21	0	484	563	86
13	33.4	49	20	2 p.m.	7 a.m.	43	28	37	6	16	14	0	497	561	89
14	30.1	50	11	1 p.m.	6 a.m.	93	27	49	9	18	19	2	476	559	85
15	33.9	44	24	2 p.m.	7 a.m.	32	29	52	0	14	21	3	346	558	62
16	31.5	43	20	3 p.m.	6 a.m.	87	58	75	17	28	28	0	432	556	78
17	37.0	53	22	11 a.m.	2 a.m.	54	33	36	11	20	17	10	411	554	74
18	28.3	38	19	1 a.m.	12 n't	68	79	89	19	24	23	27	0	552	0
19	24.5	36	12	3 p.m.	5 a.m.	100	90	78	16	29	21	17	40	551	7
20	32.0	43	19	1 p.m.	1 a.m.	66	32	100	25	15	31	22	53	549	10
21	28.4	37	22	3 p.m.	8 a.m.	77	48	61	19	17	20	8	397	548	72
22	27.6	43	13	3 p.m.	6 a.m.	71	28	46	10	11	15	0	471	547	86
23	35.9	52	18	1 p.m.	3 a.m.	59	13	44	17	5	21	3	430	545	79
24	36.9	53	18	3 p.m.	7 a.m.	88	16	30	19	7	13	6	437	543	80
25	43.4	60	27	2 p.m.	12 n't	33	12	21	10	7	12	10	375	541	69
26	44.4	63	22	3 p.m.	6 a.m.	38	17	33	9	14	23	5	490	540	91
27	37.1	52	23	1 a.m.	12 n't	90	26	43	28	14	16	0	442	539	79
28	33.1	49	19	2 p.m.	4 a.m.	88	24	46	19	14	19	12	24	538	4
29	36.4	57	19	2 p.m.	6 a.m.	87	18	23	17	16	10	2	402	537	75
30	35.9	52	24	1 p.m.	6 a.m.	75	17	44	17	11	18	1	386	536	72
Sums,	1079.2	1503	660	.....	.....	1964	919	1460	517	495	594	189	....	....	1968
Means,	36.0	50.1	22.0	.....	.....	65	31	49	17	16	20	6	....	....	....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21%	....	....	66%

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			
	WIND.							Hours of Fall.		Total Amount.	Date.
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.193	148	78.4	45.0	73.3	57.5	N. 56° 22′ E.	60.3	0	0	0	1
.036	146	83.8	46.1	4.6	37.8	N. 41° 22′ E.	50.2	0	0	0	2
.068	166	95.3	49.7	7.1	49.3	N. 42° 47′ E.	62.1	0	0	0	3
.170	213	113.6	60.4	24.1	70 5	N. 41° 06′ E.	70.6	0	0	0	4
.255	192	88.5	75.9	6.3	65.6	N. 78° 00′ E.	60.6	0	0	0	5
23.990	116	79.6	30.4	9.6	13.1	N. 4° 04′ E.	49.3	0	0	0	6
24.048	218	199.1	3.2	20.7	30.0	N. 3° 55′ E.	136.2	0	0	0	7
.130	106	45.4	48.8	1.1	52.3	S. 86° 12′ E.	51.3	0	0	0	8
.199	142	81.6	40.8	4.8	39.6	N. 59° 08′ E.	40.5	0	0	0	9
.205	150	51.5	31.2	7.0	47.8	N. 63° 33′ E.	45.6	7 a.m.	.....	28	10
265	92	47.6	13.1	1.7	52.4	N. 55° 46′ E.	61.3	0	0	0	11
.208	128	107.1	22.5	1.6	23.1	N. 14° 15′ E.	87.3	0	0	0	12
.104	180	90.0	67.4	1.2	59.9	N. 68° 56′ E.	62.9	0	0	0	13
.034	113	68.3	33.2	0.1	29.5	N. 39° 57′ E.	45.8	0	0	0	14
.144	234	69.8	114.7	0.5	117.4	S. 69° 00′ E.	125.2	0	0	0	15
.130	90	50.5	25.5	0	27.4	N. 47° 38′ E.	37.1	0	0	0	16
23.904	133	92.6	0	0.1	54.5	N. 30° 26′ E.	107.4	0	0	0	17
.941	317	311.2	0	23.9	17.2	N. 1° 14′ W.	311.2	6 a.m.	4 p.m.	.01	18
.954	110	54.5	39.1	5.2	37.1	N. 64° 14′ E.	35.4	0	0	0	19
.777	142	50.1	44.1	42.3	37.4	N. 39° 14′ W.	7.7	6 p.m.	.....	T	20
24.005	88	35.5	31.8	21.1	28.8	N. 64° 20′ E.	8.5	.....	.. a.m.	T	21
.065	135	96.3	28.1	4.3	25.8	N. 17° 30′ E.	71.5	0	0	0	22
.017	118	86.7	21.0	22.0	6.0	N. 13° 41′ W.	67.6	0	0	0	23
.107	159	117.1	19.1	41.1	17.8	N. 13° 22′ W.	100.7	0	0	0	24
.244	118	85.8	16.9	13.3	27.7	N. 11° 48′ E.	70.4	0	0	0	25
.011	149	89.9	11.5	68.7	7.3	N. 38° 04′ W.	99.6	0	0	0	26
.108	172	68.1	65.4	14.8	74.2	N. 87° 24′ E.	59.5	0	0	0	27
.170	183	181.3	0	2.8	11.4	N. 2° 43′ E.	181.5	0	0	0	28
.249	142	96.5	11.9	3.0	14.5	N. 7° 44′ E.	85.4	0	0	0	29
.336	174	6.9	32.5	0	31.9	N. 41° 09′ E.	48.5	0	0	0	30
723.067	4574	2722.6	1029.3	426.3	1164.8	.....	.....	.....	.....	0.29	....
24.102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

MONTHLY SUMMARY OF

DECEMBER,

DATE.	THERMOMETERS.					PSYCHROMETER.						SUNSHINE RECORD.			
	TEMPERATURES.			Hours of Extremes.		Relative Humidity.			Dew-point.			Clouds at Observations	Number of Minutes.		
	Mean of 24 hrs.	Extremes. Max.	Extremes. Min.	Max.	Min.	6 A.M.	12 M.	6 P.M.	6 A.M.	12 M.	6 P.M.		Actual.	Possible	Per cent.
1	42.7	64	26	2 p.m.	6 a.m.	67	30	14	17	21	4	0	....	535	. .
2	35.8	56	23	3 p.m.	5 a.m.	67	27	23	17	18	8	8	355	535	66
3	38.7	61	22	2 p.m.	6 a.m.	71	7	38	22	5	22	0	471	533	88
4	38.3	60	20	2 p.m.	5 a.m.	64	12	25	13	7	10	0	456	533	86
5	45.6	58	34	2 p.m.	1 a.m.	30	7	13	13	5	0	6	413	532	78
6	40.3	51	30	1 p.m.	11 p.m.	25	14	62	5	6	26	6	279	532	52
7	41.7	56	25	2 p.m.	5 a.m.	60	17	56	18	11	31	7	342	530	64
8	39.4	47	28	12 m.	10 p.m.	66	22	63	31	11	28	11	134	530	25
9	30.1	39	20	3 p.m.	12 n't	77	31	52	13	11	16	2	416	528	79
10	30.2	46	18	2 p.m.	7 a.m.	73	25	46	14	12	15	0	421	528	80
11	31.3	40	19	2 p.m.	1 a.m.	69	85	83	20	37	31	30	0	528	0
12	31.0	40	22	2 p.m.	12 n't	90	68	72	28	27	25	19	305	528	58
13	26.4	36	13	1 p.m.	6 a.m.	93	48	69	12	17	20	8	95†	526	18†
14	27.7	35	15	1 a.m.	12 n't	52	72	56	16	24	14	6	409	526	78
15	20.0	32	6	2 p.m.	7 a.m.	76	36	39	9	9	3	6	394	526	75
16	21.6	31	12	2 p.m.	5 a.m.	58	45	51	7	8	8	13	132	526	25
17	15.2	24	4	3 p.m.	12 n't	72	46	56	5	3	5	2	396	525	75
18	14.2	30	0	1 p.m.	4 a.m.	87	21	58	5	−3	7	6	367	525	70
19	20.2	35	5	2 p.m.	4 a.m.	34	25	36	5	5	5	0	424	525	81
20	26.2	42	5	2 p.m.	2 a.m.	70	23	16	9	8	18	13	270	525	51
21	28.8	40	20	2 p.m.	9 p.m.	57	24	34	15	6	7	5	231	524	44
22	36.6	44	18	2 p.m.	2 a.m.	22	44	73	4	21	26	11	339	524	65
23	32.8	47	18	2 a.m.	12 n't	37	63	67	20	22	17	16	76	525	15
24	45.1	60	16	1 p.m.	1 a.m.	34	13	11	17	8	2	10	340	525	65
25	33.5	47	21	11 p.m.	8 a.m.	75	31	34	17	11	7	8	329	525	63
26	47.7	59	33	4 p.m.	4 a.m.	34	13	25	17	8	20	17	203†	525	39†
27	40.5	52	29	1 a.m.	12 n't	29	56	100	18	25	32	16	310	526	59
28	29.0	31	24	9 a.m.	11 p.m.	61	81	90	20	26	28	19	50	526	10
29	31.0	38	21	2 p.m.	12 n't	74	17	21	27	0	−3	5	410	527	78
30	23.8	35	10	3 p.m.	8 a.m.	55	50	56	3	14	14	0	480	527	91
31	38.4	52	20	2 p.m.	12 n't	55	47	59	24	29	29	3	460	528	87
Sums,	1003.8	1388	577	.....	.....	1834	1100	1498	461	412	475	253	....	....	1765
Means,	32.4	44.8	18.6	.....	.....	59	35	48	15	13	15	8	.....	.....	....
Perc'g,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27%	.....	.....	59%*

† 13th and 26th, sunshine record incomplete.

INSTRUMENTAL RECORD.

1907.

BAROMETER.	ANEMOMETER AND ANEMOSCOPE.							RAIN GAUGE.			Date.
	WIND.							Hours of Fall.		Total Amount.	
Actual Pressure at 12 M.	Total Velocity.	Sum of Components.				Equivalent.		Earliest.	Latest.		
		N.	S.	W.	E.	Direction.	Miles.				
24.244	177	.....	.....	.....	.....	.....	.....	0	0	0	1
.305	135	126.3	0.1	6.0	7.8	N. 0° 49′ E.	126.2	0	0	0	2
.219	149	128.6	6.0	5.9	18.2	N. 5° 44′ E.	123.2	0	0	0	3
.120	121	93.2	17.0	12.8	12.3	N. 0° 23′ W.	76.2	0	0	0	4
.024	124	73.4	33.2	15.7	32.4	N. 22° 34′ E.	43.5	0	0	0	5
.042	188	96.7	61.0	13.8	64.6	N. 54° 54′ E.	62.1	0	0	0	6
23.811	134	8.3	19.1	37.5	30.6	N. 6° 08′ W.	64.5	0	0	0	7
.733	327	298.9	0	49.8	24.6	N. 4° 49′ W.	299.9	0	0	0	8
24.139	(Total	.....	.....	.....	.....	.....	.....	.....	.....	T	9
.001	for	.....	.....	.....	.....	.....	.....	0	0	0	10
23.500	seven	.....	.....	.....	.....	.....	.....	8 a.m.	.....	.05	11
.793	days	.....	.....	.....	.....	.....	.....	.....	.....	.02	12
.774	1723)	.....	.....	.....	.....	.....	.....	0	0	0	13
.858	.....	.....	.....	.....	.....	.....	.....	0	0	0	14
24.042	.....	.....	.....	.....	.....	.....	.....	0	0	0	15
23.889	130	93.6	7.7	14.7	22.2	N. 4° 59′ E.	68.2	0	0	0	16
24.078	241	177.8	30.6	0.8	48.6	N. 17° 59′ E.	154.8	.....	.....	T	17
.073	145	89.3	37.7	3.7	38.6	N. 34° 04′ E.	62.2	0	0	0	18
23.949	222	160.7	4.9	119.2	0	N. 37° 25′ W.	196.2	0	0	0	19
.869	170	142.4	16.7	10.7	22.4	N. 5° 19′ E.	126.2	0	0	0	20
24.031	221	206.9	0	23.2	30.1	N. 1° 55′ E.	207.0	0	0	0	21
.068	253	190.8	8.7	78.1	46.9	N. 9° 43′ W.	184.8	0	0	0	22
.051	280	247.1	0	73.5	45.4	N. 6° 29′ W.	248.7	10 a.m.	.....	T	23
23.699	245	267.9	66.0	287.1	50.9	N. 49° 29′ W.	310.7	0	0	0	24
.856	124	34.4	62.5	18.0	49.8	S. 48° 32′ E.	42.4	0	0	0	25
.625	375	150.8	60.8	242.6	40.1	N. 66° 02′ W.	221 6	0	0	0	26
.799	381	81.5	39.4	268.8	46.1	N. 79° 18′ W.	226.6	11 a.m.	.....	.04	27
.875	181	14.3	118.3	3.0	109.0	S. 45° 33′ E.	148.5	0	0	0	28
.786	302	226.9	5.0	149.3	18.2	N. 30° 34′ W.	257.8	0	0	0	29
24.052	110	37.8	32.9	10.8	24.7	N. 70° 35′ E.	14.7	0	0	0	30
23.941	145	43.5	36.5	100.3	16.6	N. 85° 13′ W.	84.0	0	0	0	31
22.246	6603	2991*1	664.1*	1545*3	800.1*	.....	.....	.....	.....	0.11	....
23.943	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

*For 30 days.

ANNUAL SUMMARY, 1907, BY MONTHS.

Month.	Barometer.					Thermometer.							Anemometer.		
	Mean at 12 M.	Extremes.		Dates of Extremes.		Mean.	Extremes.		Dates of Extremes.		Mean Max.	Mean Min.	Wind.		
		Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.			Mean Daily Velocity	Max. Daily Velocity	Date.
January	23.922	24.33	23.40[2]	22	1	32.6	60	2	23	27	45.2	19.3	199	465	19
February	24.042	.34	.70	10	27	38.5	69	1	8	3	52.6	23.2	197	317	18
March	23.953	.29	.53	30	26	45.3	78	13	18	1	58.3	31.0	246	571	26
April	.979	.27	.73	20	6	43.2	78	12	10	21	54.6	31.2	228	588[1]	7
May	.980	.22	.48	26	12	47.9	80	17	21	3	58.2	37.1	222	452	13
June	24.024	.41[1]	.82	18	8	61.1	87	37	29	1	73.0	47.1	203	340	15
July	.138	.30	.88	30[3]	15	66.9	90[1]	48	23	15	80.4	54.6	171	305	16
August	.148	.29	.95	19	30	65.5	87	44	9[3]	12	79.9	52.6	156	298	11
September	.104	.28	.90	1	19	59.7	83	33	12	10[3]	73.9	45.2	165	328	29
October	.146	.39	.84	9	28	49.8	75	28	6	21	63.3	36.6	174	338	7
November	.102	.34	.77	30	20	36.0	65	6	6[3]	11	50.1	22.0	152	317	18
December	23.943	.31	.50	2	11	32.4	64	0[2]	1	18	44.8	18.6	213	381	27
Sums	288.481	291.77	284.50	.....	.....	578.9	.....	.....	.....	.....	734.3	418.5	2,326	.....	.....
Means	24.040	24.31	23.71	.....	.....	48.2	.....	.....	.....	.....	61.2	34.9	194	.....	.....

Month.	Psychrometer.								Percentages of Cloud and Sun.		Rain Gauge. (Melted snow inclu'd)			Number of Days.						
	Relative Humidity.			Minimum Humidity.[5]		Dew-point.														
	6 A.M.	12 M.	6 P.M.	Per ct.	Date.	6 A.M.	12 M.	6 P.M.	Cloud (Area)	Sunshine (Time)	Total Fall.	Max. in one day.	Date.	Max. Th. below 32°	Min. Th. below 32°	Max. Th. above 80°	Clear.	Part Cloudy	Cloudy	Rain.[4]
Jan	67	44	48	12	13	16	17	17	32	56	0.11	0.10	1	3	29	0	19	7	5	2
Feb	62	35	46	7	8	19	17	20	32	63	0.11	0.06	24	3	26	0	14	12	2	3
Mar	68	39	43	16	19[3]	25	26	28	36	61	0.16	0.14	13	1	18	0	16	12	3	2
April	73	48	56	14	15	27	28	31	52	45	1.58	0.69	20	4	16	0	8	10	12	8
May	76	54	61	16	21	32	35	37	58	28	1.65	0.32	6[3]	0	9	0	4	17	10	9
June	51	29	35	9	8	34	33	37	35	41	0.40	0.20	30	0	0	3	16	10	4	5
July	60	38	43	12	15[6]	45	46	46	42	51	2.11	0.60	26	0	0	17	12	15	4	9
Aug	65	32	47	15	5[3]	45	42	45	43	46	1.91	1.17[1]	1	0	0	17	13	13	5	6
Sept	65	29	41	8	22	36	34	39	29	65	0.68	0.33	9	0	0	5	19	10	1	4
Oct	69	33	51	14	2	30	29	35	26	66	0.69	0.39	24	0	2	0	24	5	2	5
Nov	65	31	49	12	6[3]	17	16	20	21	66	0.29	0.28	10	1	26	0	24	3	3	2
Dec	59	35	48	7	5[3]	15	13	15	27	59	0.11	0.05	11	4	29	0	21	9	1	3
Sums,	780	447	568	.....	.....	341	336	370	433	647	9.80	.....	.....	16	155	42	190	123	52	58
Means,	65	37	47	.....	.....	28	28	31	36	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[1] Yearly maximum. [2] Yearly minimum. [3] More than one date. [4] No. days of precipitation (including melted snow) to the amount of one-hundredth of an inch.
[5] Recorded at the noon observation, unless otherwise noted. [6] At the 6 P. M. observation.

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